

TSITSA BRIDGE
1897
100 FT SPAN

**BRAITHWAITE
 & KIRK
 MAKERS
 WESTBROMWICH**

TOUW RIVER BRIDGE
 - 1897 -
100 FT SPAN

HONTINI RIVER BRIDGE
 - 1897 -
100 FT SPAN

**I.S.R
 GOONA BARA RY
 40 FT SPAN
 Contract 72/290
 74/206
 (1897) BRAITHWAITE
 & KIRK**

CROWN AGENTS FOR THE COLONIES
 2 PS TANKS 24.12.12 DEEP WITH
 SPECIAL COVERS
 REQD W/TANG RLY 3616/1
 INDENT NO RLY 208 DATED 4.10.45
 CONTRACTORS
 BRAITHWAITE & CO ENGINEERS LTD
 NEWPORT MON
 ORDER NO GT8240 SEPT 1945

**BRAIT
 STEEL**

**G.I.P. RY
 CHOTA TOWA BRIDGE
 CONTRACT NO 260
 65-8 SPAN.
 Braithwaite & Kirk
 West Bromwich**

**I.S.R
 GOONA BARA RY
 40 FT SPAN
 Contract 72/290
 74/206
 (1897) BRAITHWAITE
 & KIRK**

**SOUTH BEHAR
 RAILWAY,
 60 FT SPAN.
 Contract No 18.
 (1897)
 BRAITHWAITE
 & KIRK**

CROWN AGENTS COLONIES
 P S TANK 24x24x12 DIVISION
 ON STEEL TOWER 57-9 HIGH
 REQD W/TANG RLY 3245/1
 INDENT NO RLY.1-DATED 5-1-44
 CONTRACTORS
 BRAITHWAITE & CO ENGINEERS LTD NEWPORT
 ORDER NO T-7731 - NOV. 1934

B R A I T H

**STANDARD DERRICK 36'-0" HIGH
 FOR THE WAR OFFICE
 ENGINEER W.T. EVERALL M. INST. C.E
 CONTRACTORS
 BRAITHWAITE & CO ENGINEERS LTD
 WEST BROMWICH
 CONTRACT NO 4229 OF 1939.**

**CENTRAL SOUTH AFRICAN
 RY
 50 metre Spans
 Req no Braithwaite
 W.9011 & Kirk
 1906 West Bromwich**

**BRAITHWAITE
 STEEL**

**E.I.R.
 Chandmarea Road
 Bridge.
 110' SPAN.
 CON. BRAITHWAITE
 & KIRK,
 West Bromwich.**

**JAMAICA GOVERNMENT RAILWAY
 MAY-PEN BRIDGE
 CONTRACT 778/1 (JUNE 16 1923)
 ENGINEERS
 SIR JOHN WOLFE BARRY, LYSTER & PARTNERS
 MAKERS
 BRAITHWAITE & CO ENGINEERS LTD
 117 VICTORIA ST LONDON SW1**

**FOOTBRIDGES -
 AHMEDABAD
 B.B.&C.I. RLY 1/50 & 1/70 SPAN
 MADE BY
 BRAITHWAITE & CO
 ENGINEERS LTD
 WEST BROMWICH.**

CROWN AGENTS FOR THE COLONIES
 1 PS TANK 16.12.8 DEEP WITH
 OPEN TOP
 REQD W/CEYLON RLY 6500/1
 INDENT NO 1026 DATED 2.2.46
 CONTRACTORS
 BRAITHWAITE & CO ENGINEERS LTD
 NEWPORT MON
 ORDER NO GT8372 SEPT 1946

**BRAITHWAITE & CO ENGINEERS LTD
 WEST BROMWICH
 50-HP. CYLINDER SCREWING
 CAPSTAN - No 3 -**

CROWN AGENTS FOR THE COLONIES
 1 PS TANK 24.20.4 DEEP WITH
 CENTRAL DIVISION
 REQD W/CEYLON RLY 6601/1
 INDENT NO 1091/46 DATED 1-5-46
 CONTRACTORS -
 BRAITHWAITE & CO ENGINEERS LTD
 ORDER NO T8594 JULY 1947

NATAL GOVT RYS
30'0" SPANS
Indent No (Braithwaite & Kirk
R&H.980.A) West Bromwich
1906

WAITE
ORK

EAST INDIAN RY
Trowse Bridge Renewal
150'0" SPANS.
Cont No 1681 Braithwaite & Kirk
1905 West Bromwich

SANTA MARTA RY
146'0 & 40'0 SPANS
Specification No F914
Braithwaite & Kirk
West-Bromwich
1906

INDIAN STATE RAILWAYS
75-6 SPAN,
Cont No A4484 Braithwaite & Kirk,
1901. Westbromwich.

INDIAN STATE RYS
100'0 DECK SPANS
CONT NO D 253
(1904)
BRAITHWAITE & KIRK
WESTBROMWICH

I.S.R
5-6 GAUGE
60'0 CLEAR SPAN

GOO SPANS
AT WAUGOOR & MANAIR
Contract No 260
(1905) Braithwaite & Kirk
West Bromwich

STEELWORK BY
BRAITHWAITE & CO
ENGINEERS LTD.
INCORPORATED IN GREAT BRITAIN
LONDON WEST BROMWICH NEWPORT ROMNEY

25'0 SPANS MADE
FOR Messrs J. REID & CO
By Braithwaite & Kirk
1906 West-Bromwich

WAITE

WAITE
RK

UGANDA RAILWAY
CYLINDERS & BEARING
GIRDERS FOR BRIDGE PIERS
REQ NO 604-1899
CONT NO 1
SIR A. M. RENDEL Engineer

CROWN AGENTS FOR THE COLONIES
P.S. TANK 16' x 16' x 8' DEEP. OPEN TOP
PREPARED FOR INCREASE TO 12' DEEP
ON 30' HIGH STEEL TOWER
REQ NO W/KUR 3233/1A
INDENT NO 939 DATED 20.6.46
CONTRACTORS -
BRAITHWAITE & CO STRUCTURAL LTD
NEWPORT, MON
ORDER NO T502 JUNE 1949

CROWN AGENTS FOR THE COLONIES
REQ NO W/IRAQ 4163/1
BRIDGES IRAQ
BRAITHWAITE & CO ENG'S LTD
WEST BROMWICH
NOV 10 1934

FOOTBRIDGES -
AHMEDABAD
B&C Rly 1/50 & 1/70 SPAN
BRAITHWAITE & CO
ENGINEERS LTD
WEST BROMWICH.

STEELWORK
BY
BRAITHWAITE & CO
ENGINEERS LTD
WEST BROMWICH

NATAL GOVERNMENT RYS
40'0 SPAN
Indent No L&W 208
BRAITHWAITE & KIRK
MAKERS
WEST BROMWICH

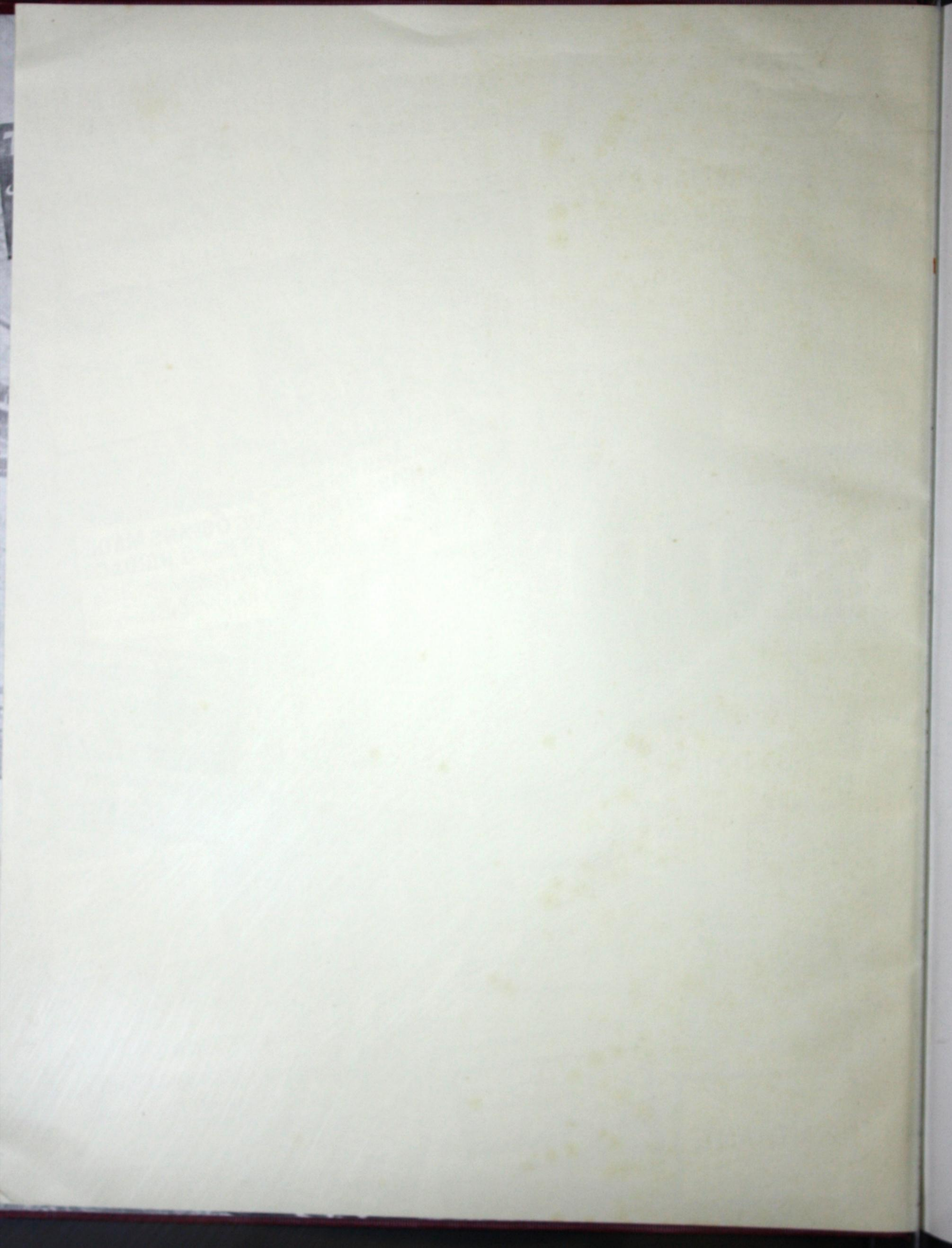
CROWN AGENTS FOR THE COLONIES
P.S. TANK 40' x 36' x 12' DEEP
WITH WEATHERPROOF COVER
ON STEEL TOWER 20' HIGH
REQ NO W/EC3 UGANDA PWD 2786/1
INDENT NO 64/1949 DATED 13.1.49
CONTRACTORS -
BRAITHWAITE & CO STRUCTURAL LTD
NEWPORT, MON
ORDER NO T805 DATE MAY 1950

STEELWORK
BY
BRAITHWAITE
& CO ENGINEERS LTD
WEST BROMWICH

CAPE GOVERNMENT RY P.W.D.
LADY LOCH BRIDGE WELLINGTON
6-100'0 THRO' SPANS
Reg No 4789 Braithwaite & Kirk
1910 West-Bromwich

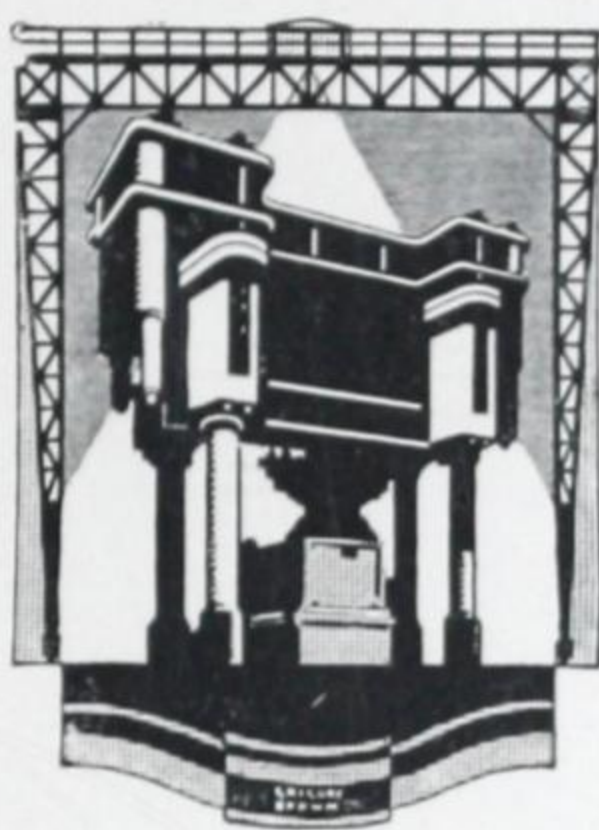
INDIAN STATE RAILWAY
GREAT INDIAN PENINSULA RY
NEERUDDA BRIDGE
5 SPANS 50-100'0
CONTRACT No. 12008
STANDARD R R ROAD GAUGE LONDON
DESIGNED & MADE
BY
BRAITHWAITE & CO ENGINEERS LTD.
MILNDR WORKS

THE MANILA RY CO LTD
PENERANDA BRIDGE
50 metre SPANS
906 Braithwaite & Kirk
West-Bromwich



BRAITHWAITE & Co.

ENGINEERS LIMITED.



Telephone: Whitehall 3993

Telegrams: Bromkirk, Phone, London

DORLAND HOUSE
REGENT STREET
LONDON
S.W.1

REGISTERED OFFICE: THE MOORINGS, GREAT BOOKHAM, SURREY

[BLANK PAGE]



CCA

BRAITHWAITE & Co.

ENGINEERS LIMITED.

SUBSIDIARY COMPANIES AND OVERSEAS BRANCHES

BRAITHWAITE & CO. STRUCTURAL LIMITED

CROWN BRIDGE WORKS, WEST BROMWICH, STAFFS.
NEPTUNE WORKS, NEWPORT, MON.

BRAITHWAITE & CO. OVERSEAS LIMITED

DORLAND HOUSE, REGENT STREET, LONDON, S.W.1

BRAITHWAITE & CO. (INDIA) LIMITED

CLIVE WORKS, HIDE ROAD, KIDDERPORE, CALCUTTA

BRAITHWAITE & CO. EGYPT LIMITED

2 SHARIA ELHAMI, KASR EL DOUBARA, CAIRO

BRAITHWAITE & CO. ENGINEERS LIMITED

YENİ HAN, YENİÇERİ AĞASI SOK., İSTİKLÂL CAD., İSTANBUL, TURKEY.

ASSOCIATED COMPANY

BRAITHWAITE, BURN & JESSOP CONSTRUCTION CO. LTD.

P. 13. MISSION ROW EXTENSION, CALCUTTA

DORLAND HOUSE, REGENT STREET

LONDON, S.W.1

[BLANK PAGE]



CCA

CONTENTS

PREFACE

BRIDGES

PIERS, WHARVES AND JETTIES

SCREWCRETE FOUNDATIONS

PIPE LINES

POWER STATIONS

STEEL FRAMED STRUCTURES

STEEL TOWERS AND PYLONS

WELDED STRUCTURES

RAILWAY WAGONS

PRESSED STEEL TANKS

WORLD WAR II, 1939-1945

[BLANK PAGE]



CCA



Braithwaite & Co. Engineers Limited

Dorland House, Regent Street, London, S.W.1

The firm of Braithwaite & Co. Engineers Limited, founded in 1884 under the name of Braithwaite and Kirk at Crown Bridge Works, West Bromwich, England, was engaged exclusively for a number of years on the manufacture of Bridgework, the majority of which was for export to British Possessions abroad. In 1915 a further works was established at Newport, England. In 1921 the name of the Company was changed from Braithwaite and Kirk to Braithwaite & Co. Engineers Limited. By degrees the Company's activities extended into the wider commercial field of heavy Structural Steelwork, Wharves and Harbour Works, Pipe Lines, General Steel Construction, specialised methods of Piling and Civil Engineering and Contracting.

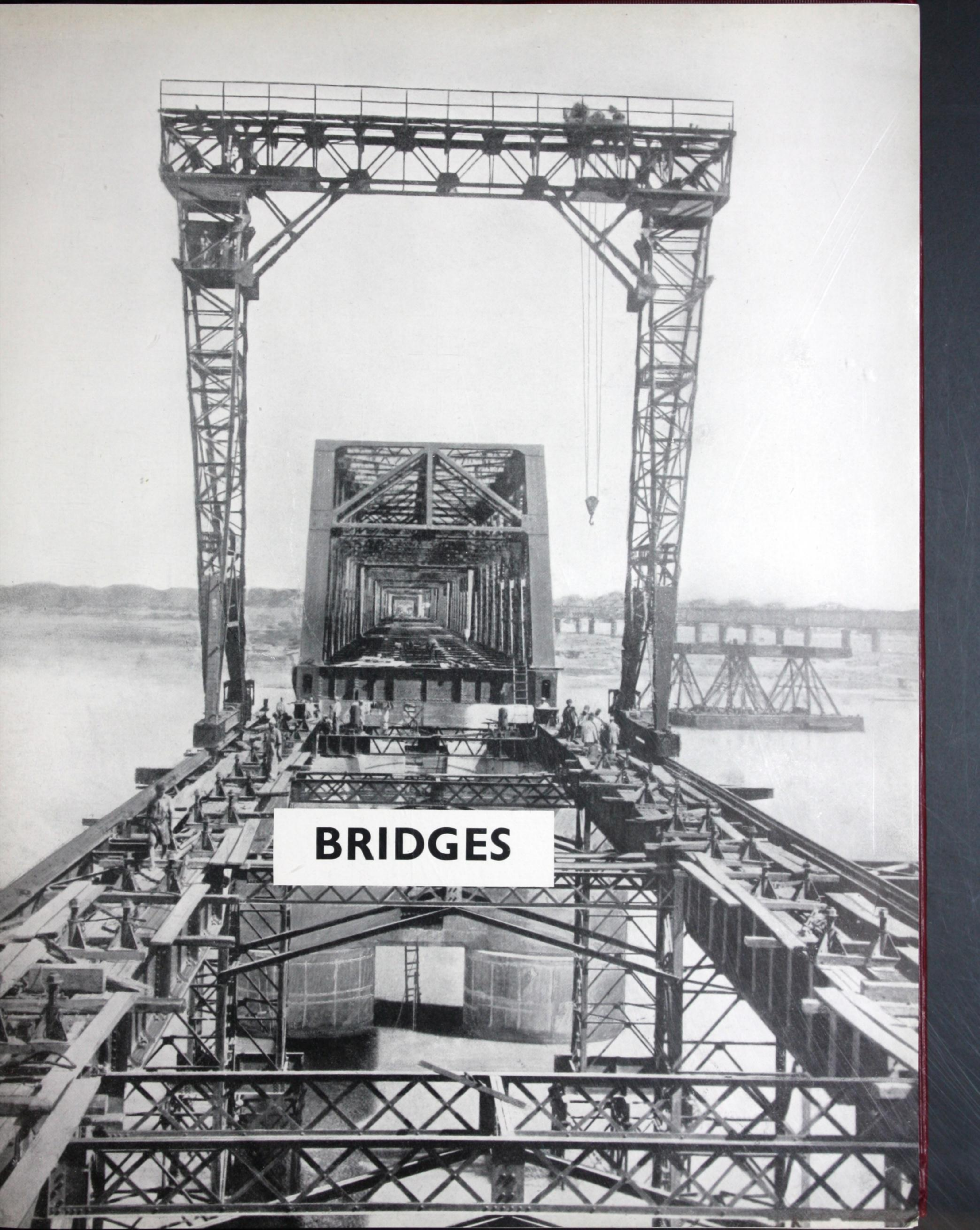
Interest in operations overseas began in 1913 when a branch was opened in Calcutta. In 1921 a further branch was opened in Bombay. In subsequent years branches were opened in Turkey and Egypt. The activities of the Company overseas have included the supply of something like 60 per cent of the Steel Bridgework constructed in India in recent years; the construction of Wharves and Jetties in Calcutta, Beira, Rangoon, Iskenderun, Cochin and the Bosphorus; Pipe Lines in Bombay, Sao Paulo, Rangoon and Cairo, and miscellaneous Civil Engineering Works in Turkey, Egypt, Syria and Saudi Arabia.

In 1948 it was decided to reconstruct the organisation in a manner best suited to meet increasing trade and to-day Braithwaite & Co. Engineers Limited controls a world-wide organisation which is engaged on General Civil Engineering Work, the fabrication and erection of Steel Bridgework and Structural Steelwork of all types.

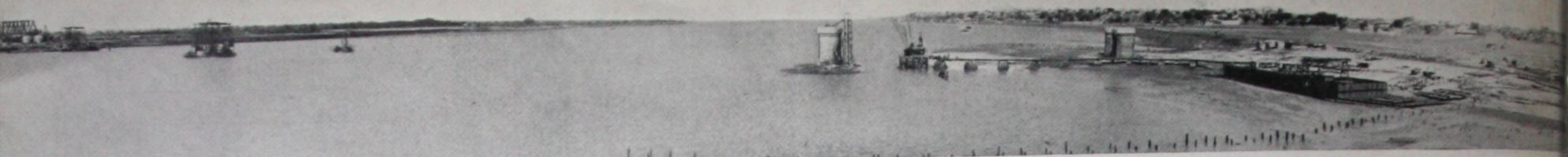
[BLANK PAGE]



CCA



BRIDGES

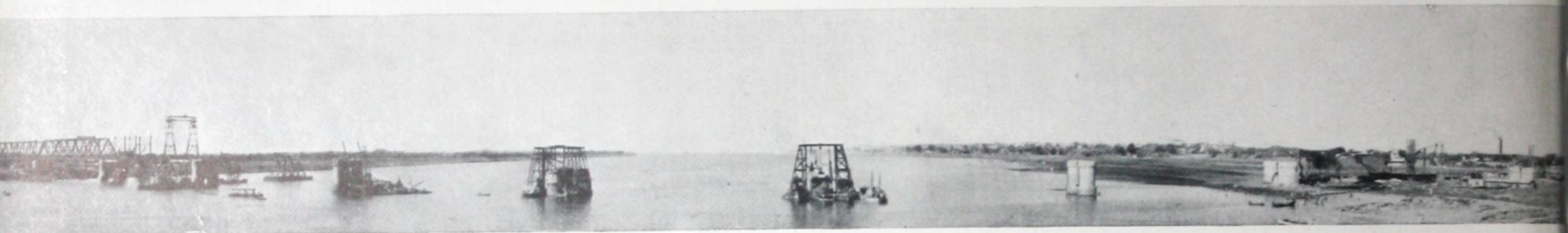


I. THE SILVER JUBILEE BRIDGE, BROACH—B.B. & C.I. RAILWAY—INDIA.
In different stages of construction June, 1934 to May, 1935.

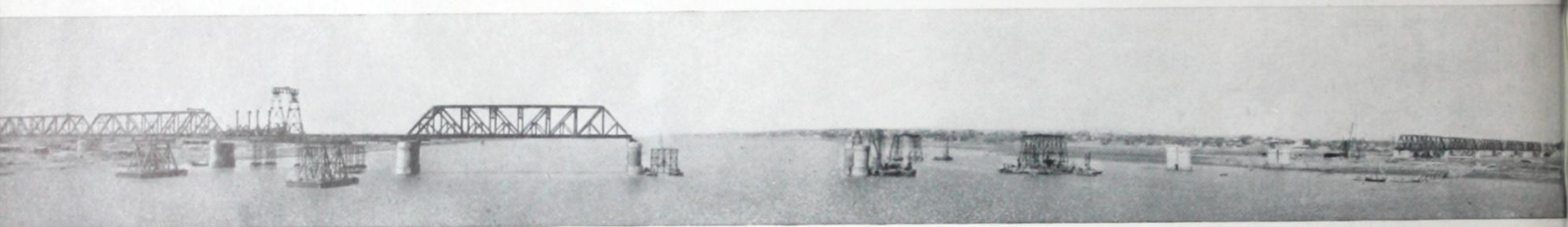
June, 1934



21st January, 1935



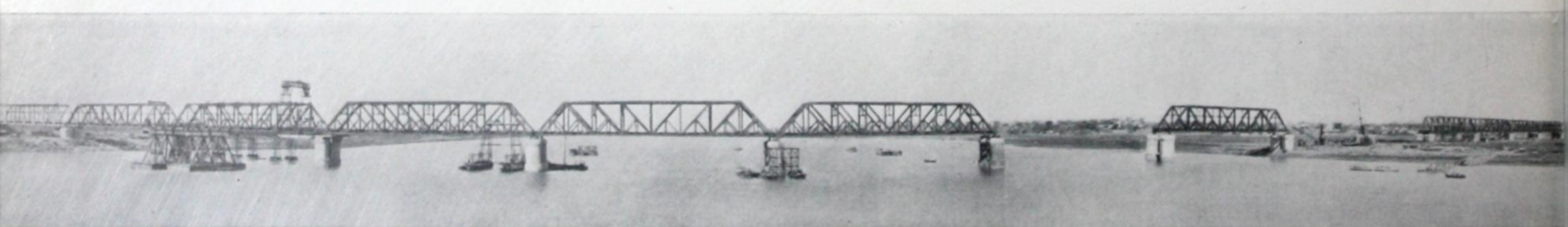
7th February, 1935



17th March, 1935



5th April, 1935



19th April, 1935
25th May, 1935





2. THE SILVER JUBILEE BRIDGE, BROACH—B.B. & C.I. RAILWAY—INDIA
Across the Nerbudda River.

C-3.

INDIAN POSTS AND TELEGRAPHS DEPARTMENT. 06175

Received here at 2/15 M. Na.

DLT R6 125 LONDON 29 IRC 28 -

DLT MANAGING DIRECTOR C / O BROMKIRI CALCUTTA -

PLEASE ACCEPT AND COMMUNICATE WORKS AND SITE STAFF WARMEST
CONGRATULATIONS ON EXCELLENT PERFORMANCE COMPLETING NERBUDDA
BRIDGE FIFTEEN MONTHS BEFORE CONTRACT DATE - CHAIRMAN -

The sequence of entries at the beginning of this telegram is—class of telegram, time handed in, serial number (in the case of foreign telegrams only), office of origin, date, service instructions (if any) and number of words.
This form must accompany any inquiry respecting this Telegram.
MOIPPA—1307—10-9-34—40,600.

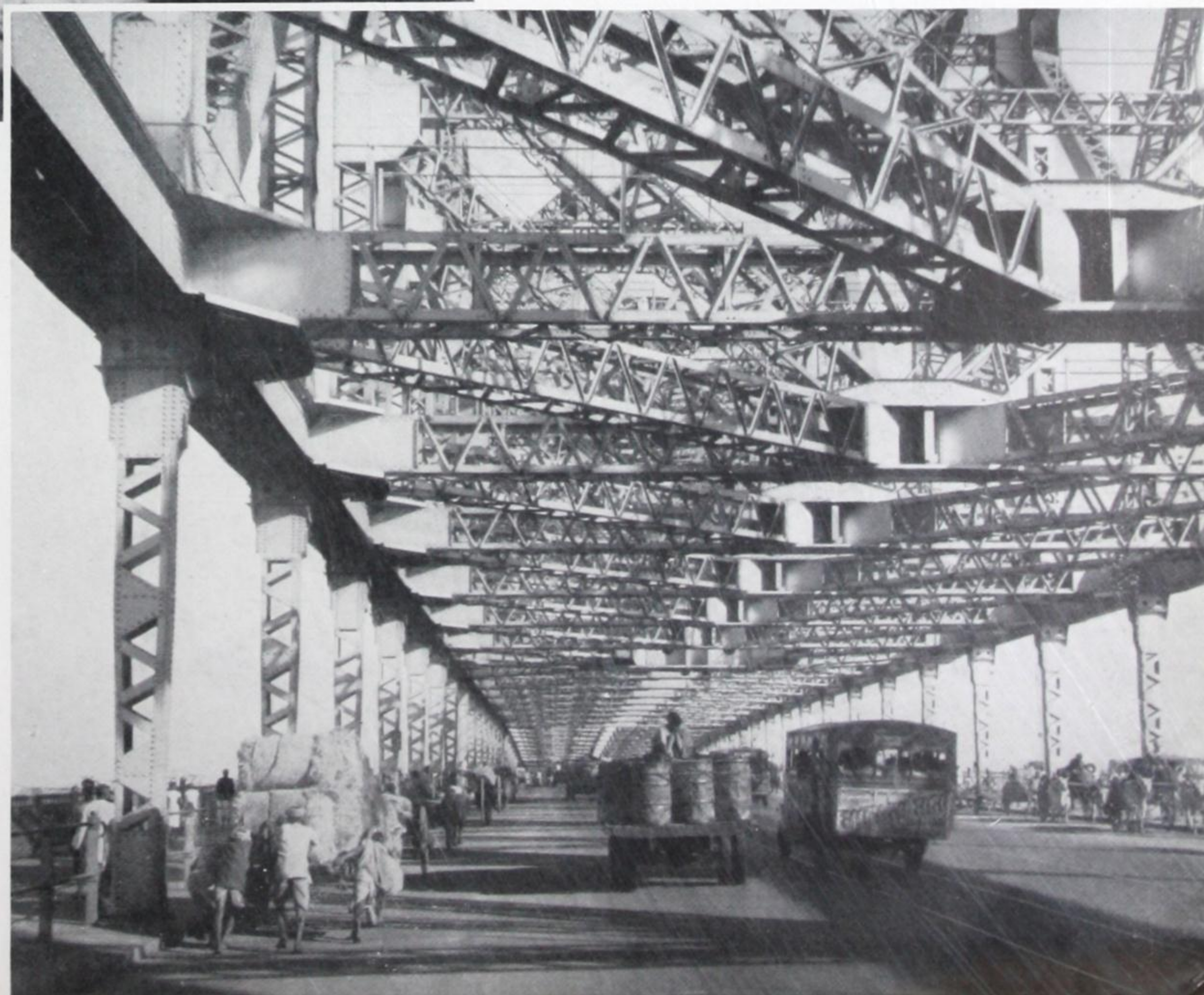


3. HOWRAH BRIDGE—CALCUTTA, INDIA

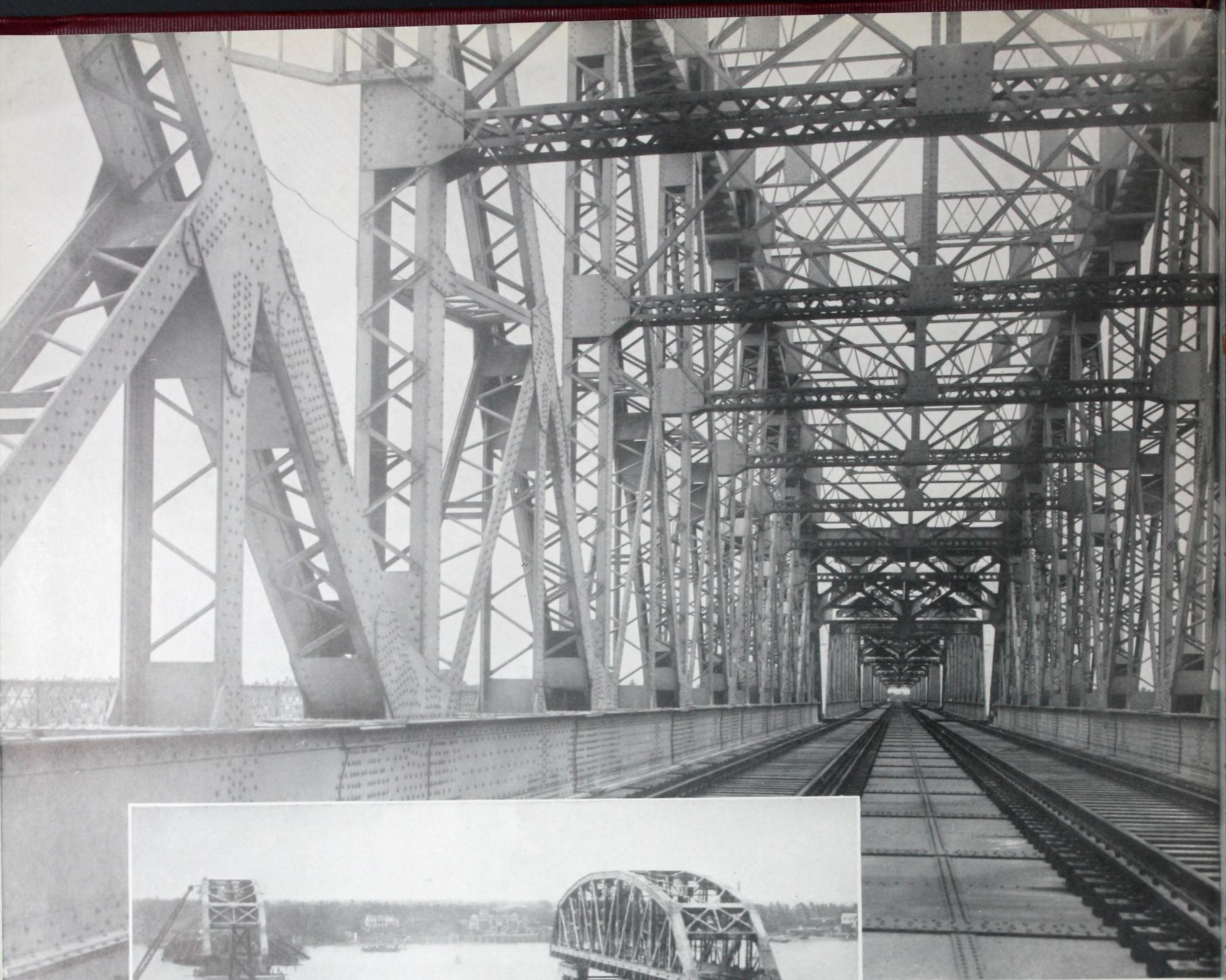
Howrah Bridge spanning the River Hooghly at Calcutta. The steelwork was made in the several Works of The Braithwaite, Burn & Jessop Construction Co. Ltd., Calcutta.



4. HOWRAH BRIDGE—CALCUTTA



5. HOWRAH BRIDGE—CALCUTTA



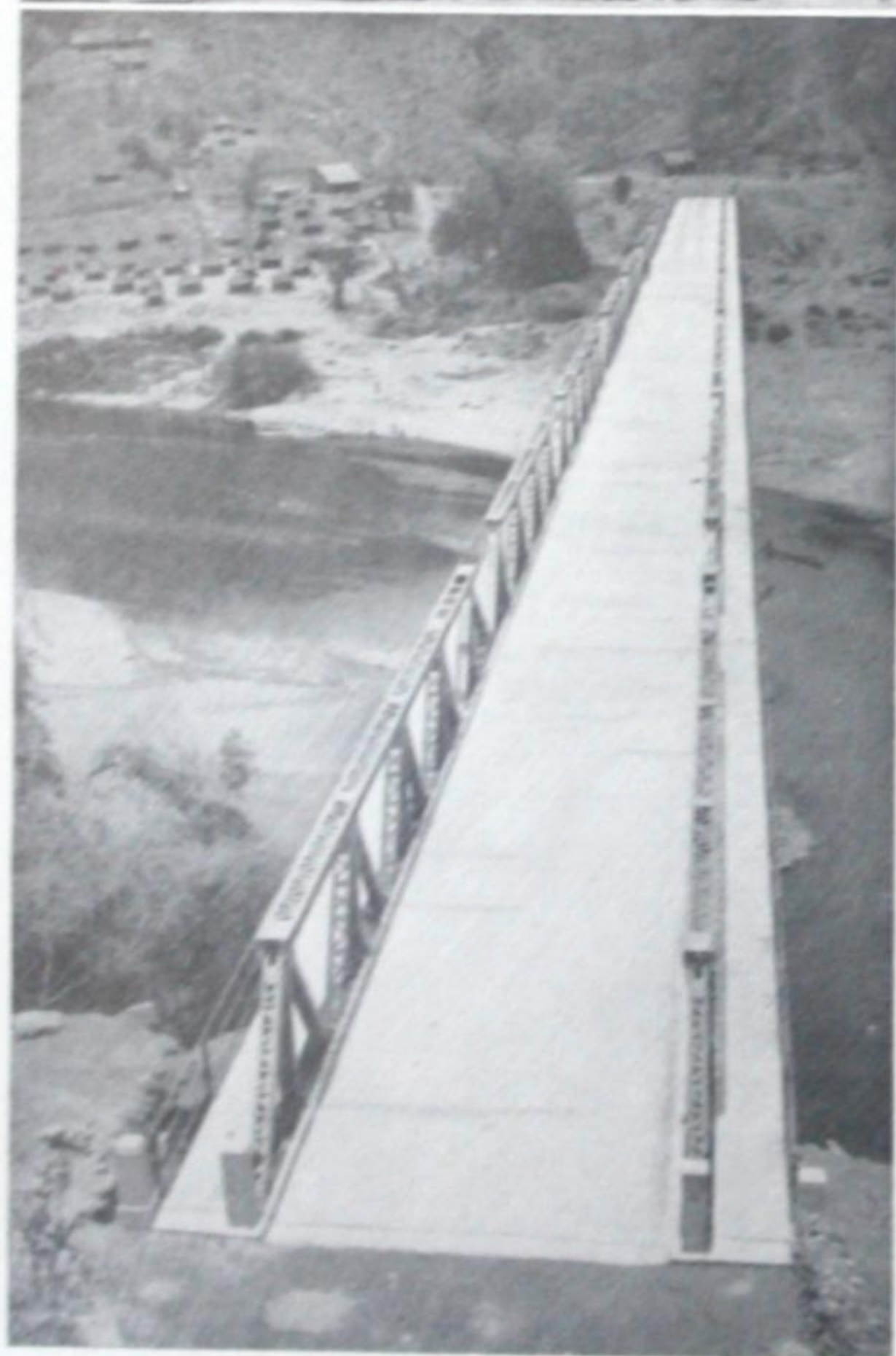
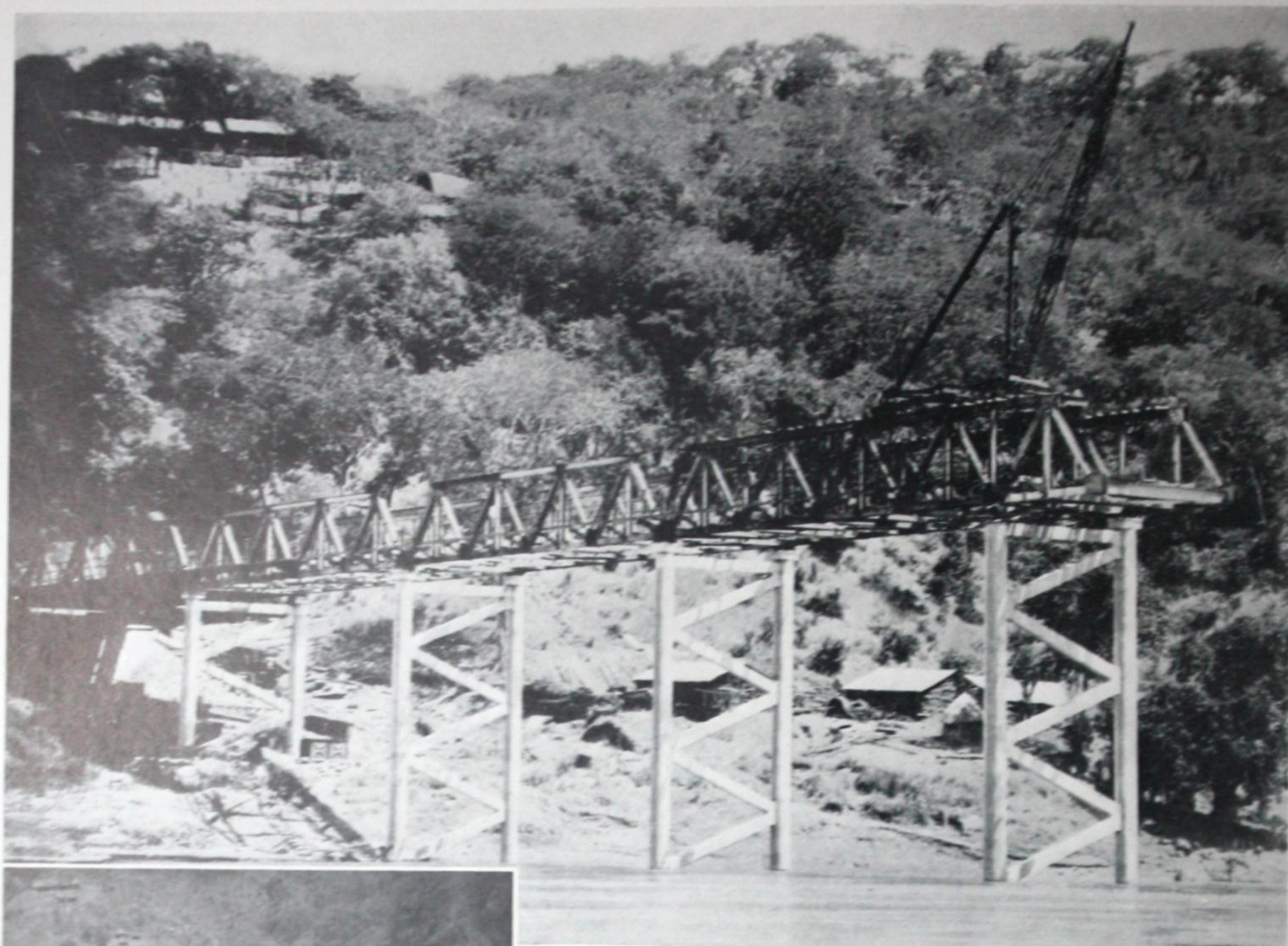
6. WILLINGDON BRIDGE—CALCUTTA, INDIA

Across the River Hooghly carrying double rail track between main girders with a roadway on cantilevers at either side.

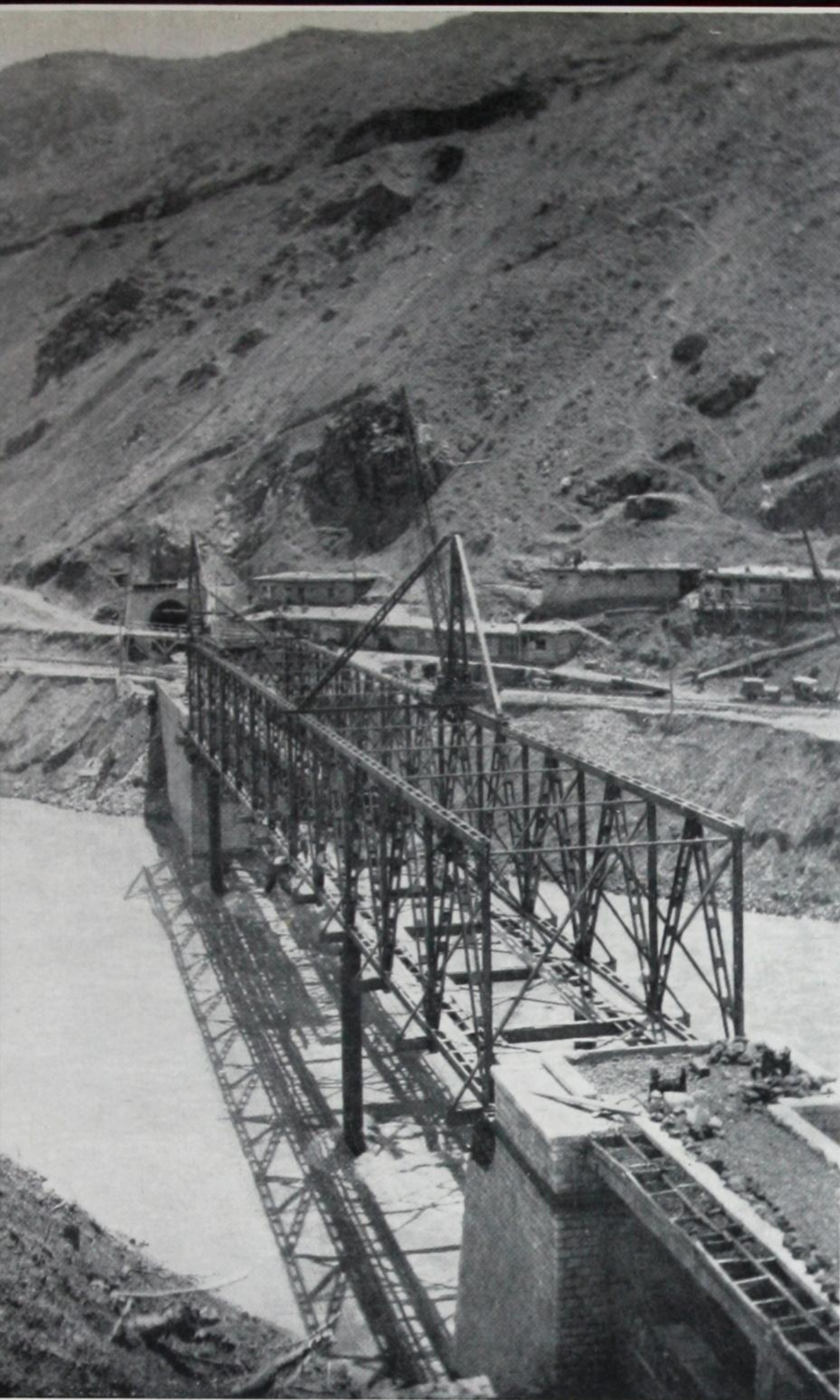


7. THE JUMNA BRIDGE—INDIA

Carries the North Western Railway on the upper floor system and a roadway on the lower system. It consists of 12 spans of 214 feet each and two approach spans with a total length of 2,700. feet.



8. LUANGWA BRIDGE—NORTHERN RHODESIA
 The spans are supported on 42 inches diameter
 Screwcrete cylinders with 8 feet diameter helices.



9. RAILWAY BRIDGE—TURKEY

Service Girder during erection

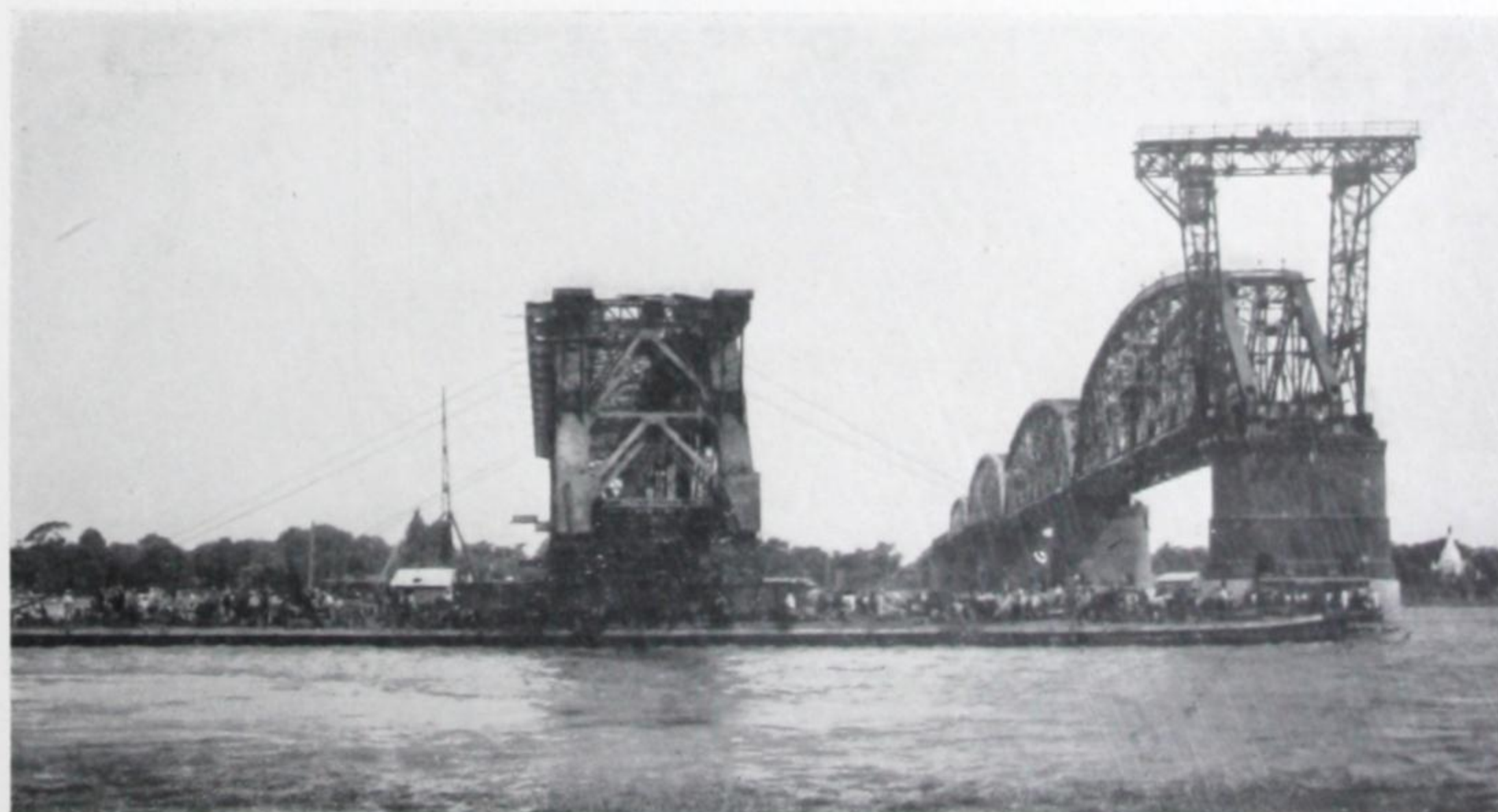
Main Span during erection



10. AVA BRIDGE—BURMA
Floating out the service girder during erection.



11. AVA BRIDGE—BURMA
Spanning the Irrawaddy River.



12. AVA BRIDGE—during construction.

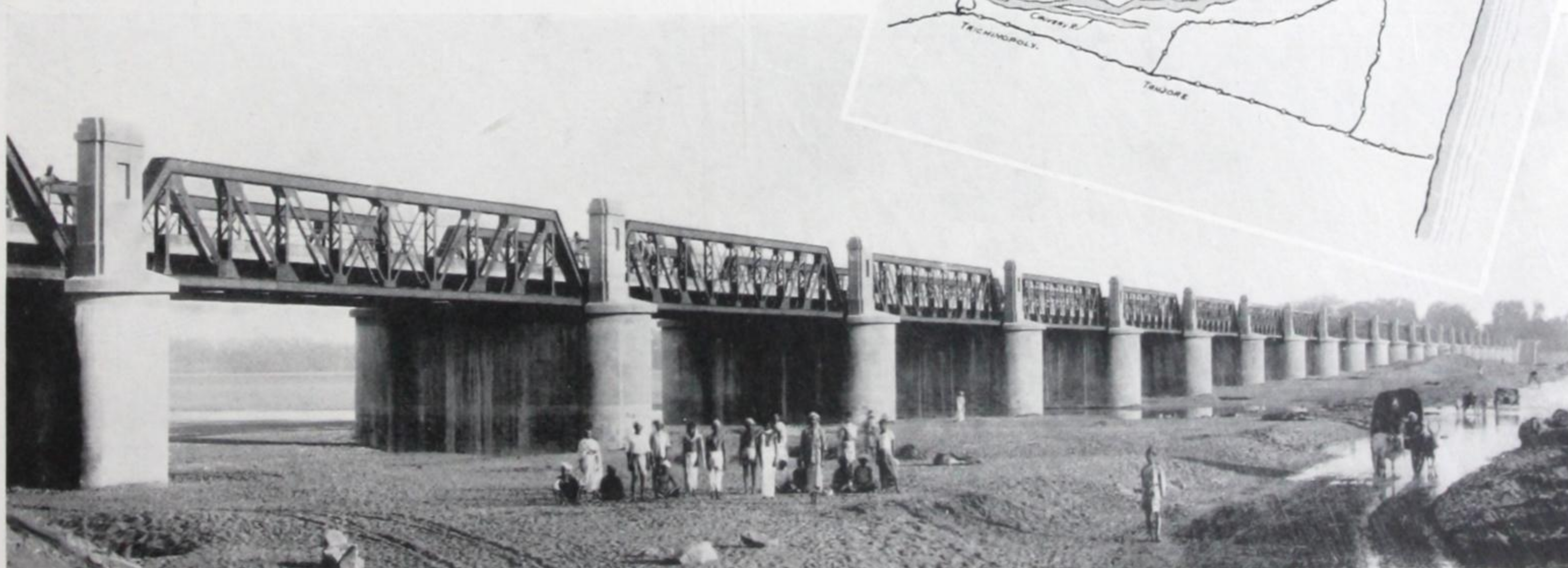
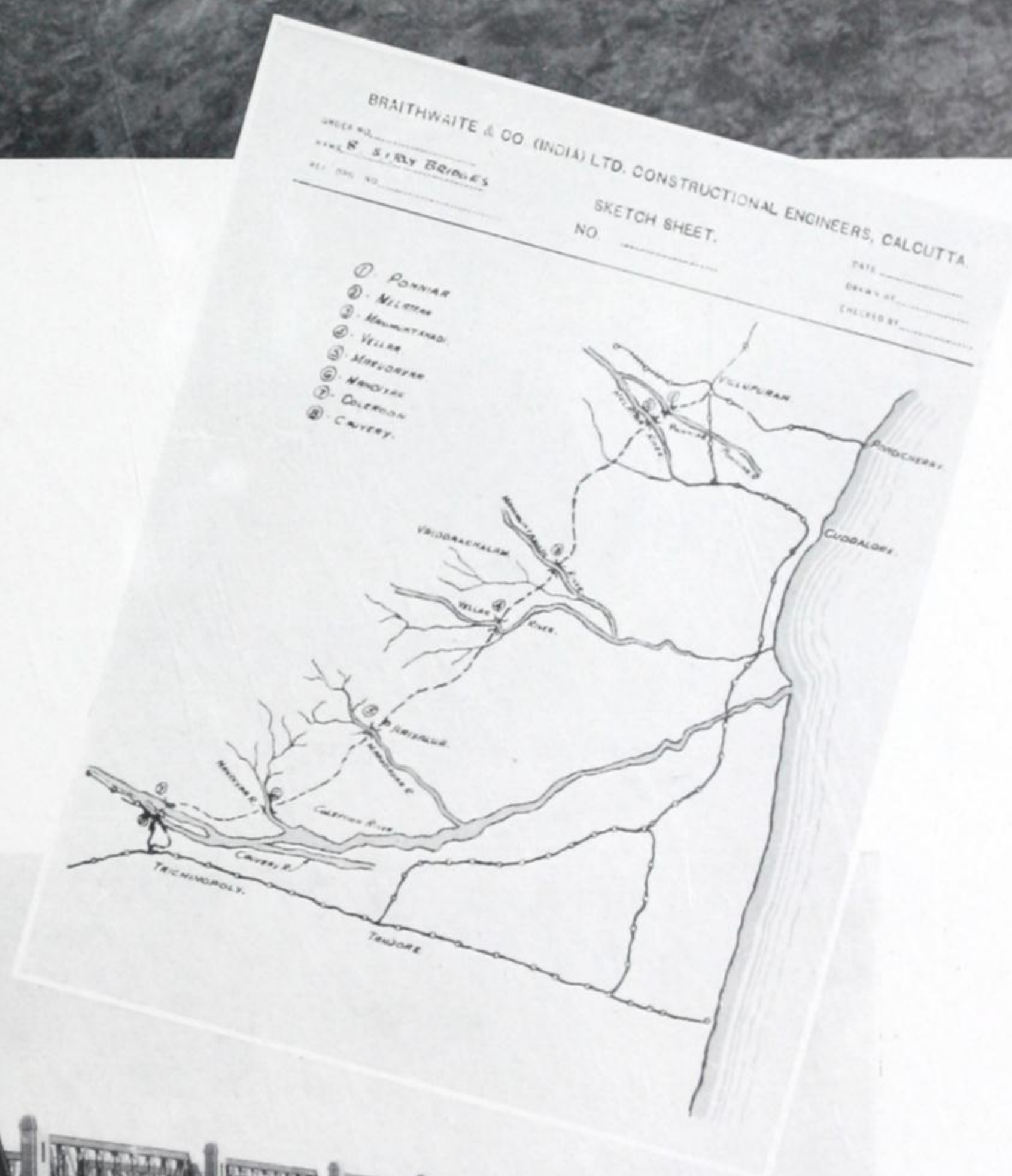


13. KANGRA VALLEY BRIDGE—INDIA
Spanning the Roand Nullah in the Himalayas.



14. BRIDGE—ACROSS THE CAUVERY RIVER, INDIA

15. BRIDGE—TRICHINOPOLY, INDIA
Across the Coleroon River, Southern India.
One of a series of eight bridges on the railway
between Trichinopoly and Villapuram.





16. BRIDGE—KASHMIR
Across the River Tawi, Kashmir, North India.



17. Dismantling the old suspension bridge
after erection of the new spans



18. CHAMBAL BRIDGE—INDIA



19. CHAMBAL BRIDGE—Another view



20. NORTH BRIDGE—BAGHDAD, IRAQ. Across the River Tigris.
Main Contractors: Messrs. Holloway Bros. Ltd.



21. KING FEISAL BRIDGE—BAGHDAD, IRAQ. Across the River Tigris.
Main Contractors: Messrs. Holloway Bros. Ltd.



22. MUSAYIB BRIDGE—IRAQ

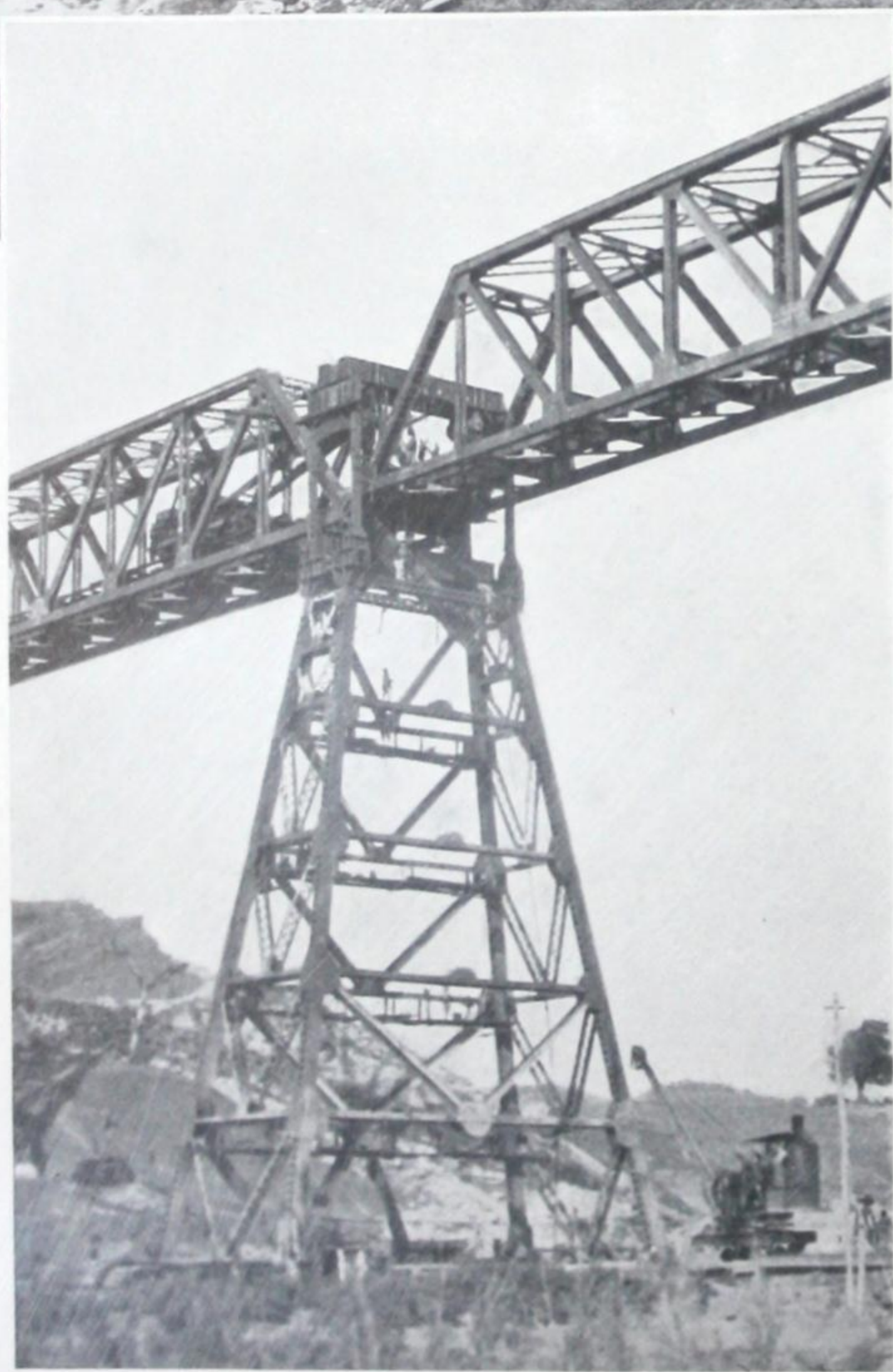


23. ROAD BRIDGE—SOUTH INDIA



24. VILA FRANCA BRIDGE—PORTUGAL

One of the spans supplied by BRAITHWAITES to the main contractors, Messrs. Dorman Long & Co., Ltd.



25. NERBUDDA BRIDGE—G.I.P. RAILWAY, INDIA
Carried on steel trestles each founded on four steel cylinders 12 feet diameter filled with concrete.

26. One of the trestles
Nerbudda bridge.



27. SWING BRIDGE—EGYPT
Across the Suez Canal at El Ferdan.



28. DAUGAVA BRIDGE—LATVIA
Combined road and rail bridge across the River Daugava at Krustpils, Latvia.



29. NOTTINGHAM VIADUCT—ENGLAND



30. RAILWAY BRIDGE—L.M.S. RAILWAY, ENGLAND
At Peterborough across the River Nene.



31. RAILWAY BRIDGE—SOUTHERN RAILWAY, ENGLAND
Skew span bridge carrying one main line over another.



32. TEIGNMOUTH ROAD BRIDGE—DEVON, ENGLAND
Across the River Teign.



33. BRIDGE—ARGENTINE STATE RAILWAYS
A single line railway bridge over the River Pichileufu.



34. BRIDGE—ARGENTINE STATE RAILWAYS



35. THREE BRIDGES—
ARGENTINE STATE RAILWAYS

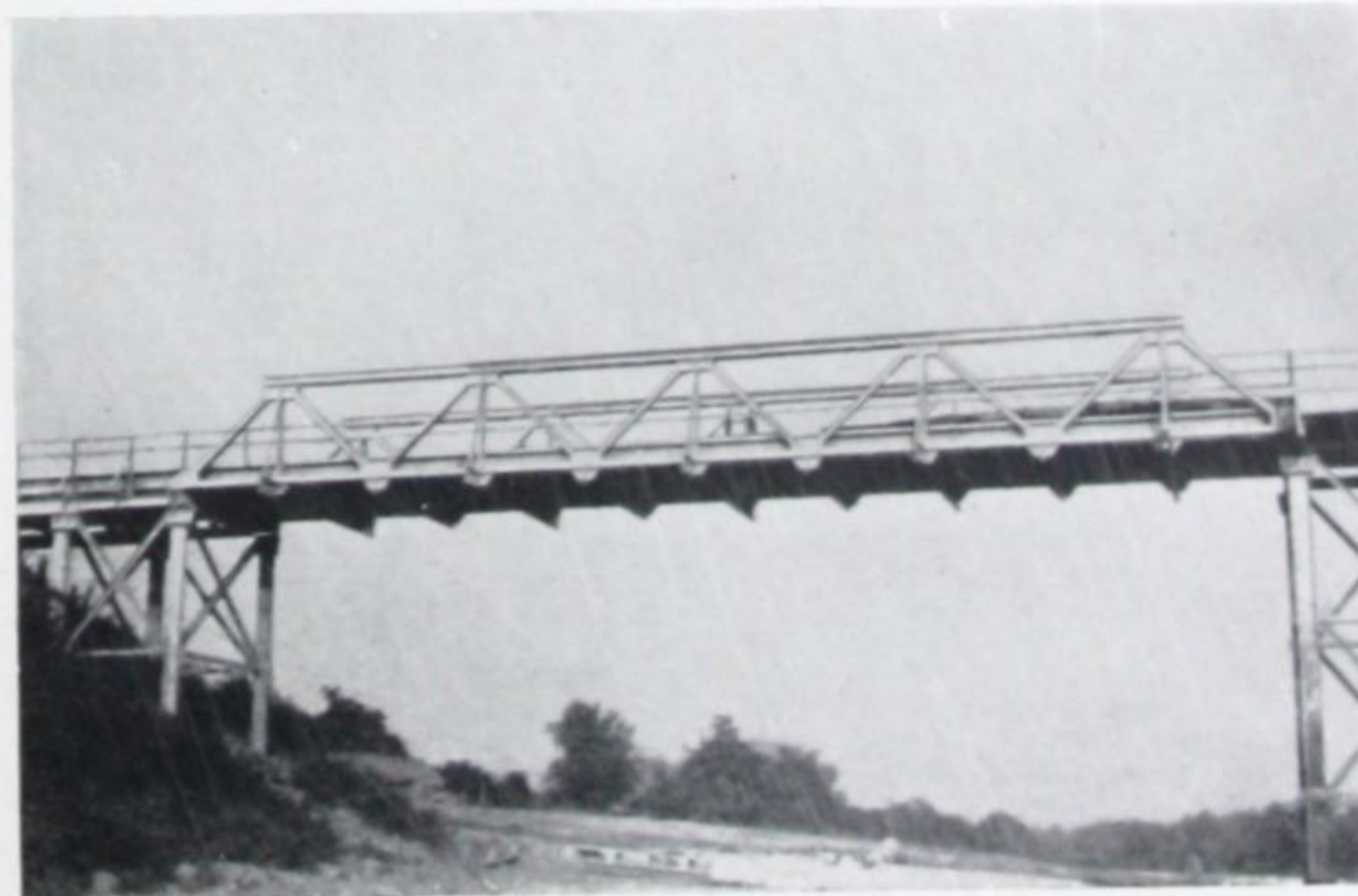


36. ROAD BRIDGES—INDIA





37. ROAD BRIDGES—INDIA





38. BRIDGE—WAZIRISTAN

Military road bridge, carried on solid steel screw piles. One of many supplied to the Military authorities on the Indian Frontier.



39. AHMEDWAN BRIDGE—PAKISTAN



40. JANDOLA BRIDGE—PAKISTAN

[BLANK PAGE]



CCA



PIERS WHARVES AND JETTIES



41. PIER—BRIGHTON, SUSSEX, ENGLAND
Carried on cast iron piles 12 inches diameter with
cast iron helices 30 inches diameter.



42. PIER—COLWYN BAY, NORTH WALES
Carried on cast iron piles 12 inches diameter with
cast iron helices 30 inches diameter.

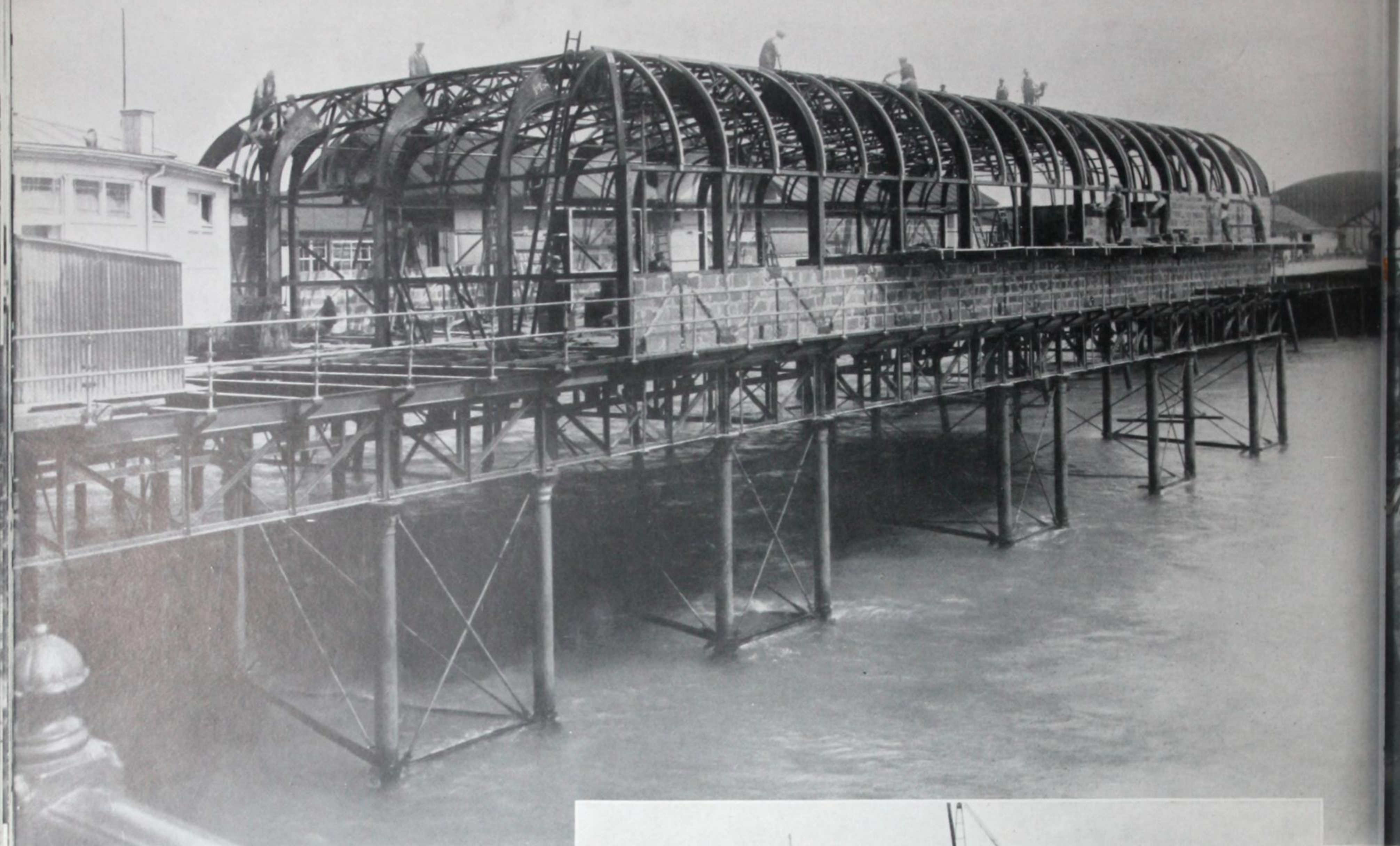




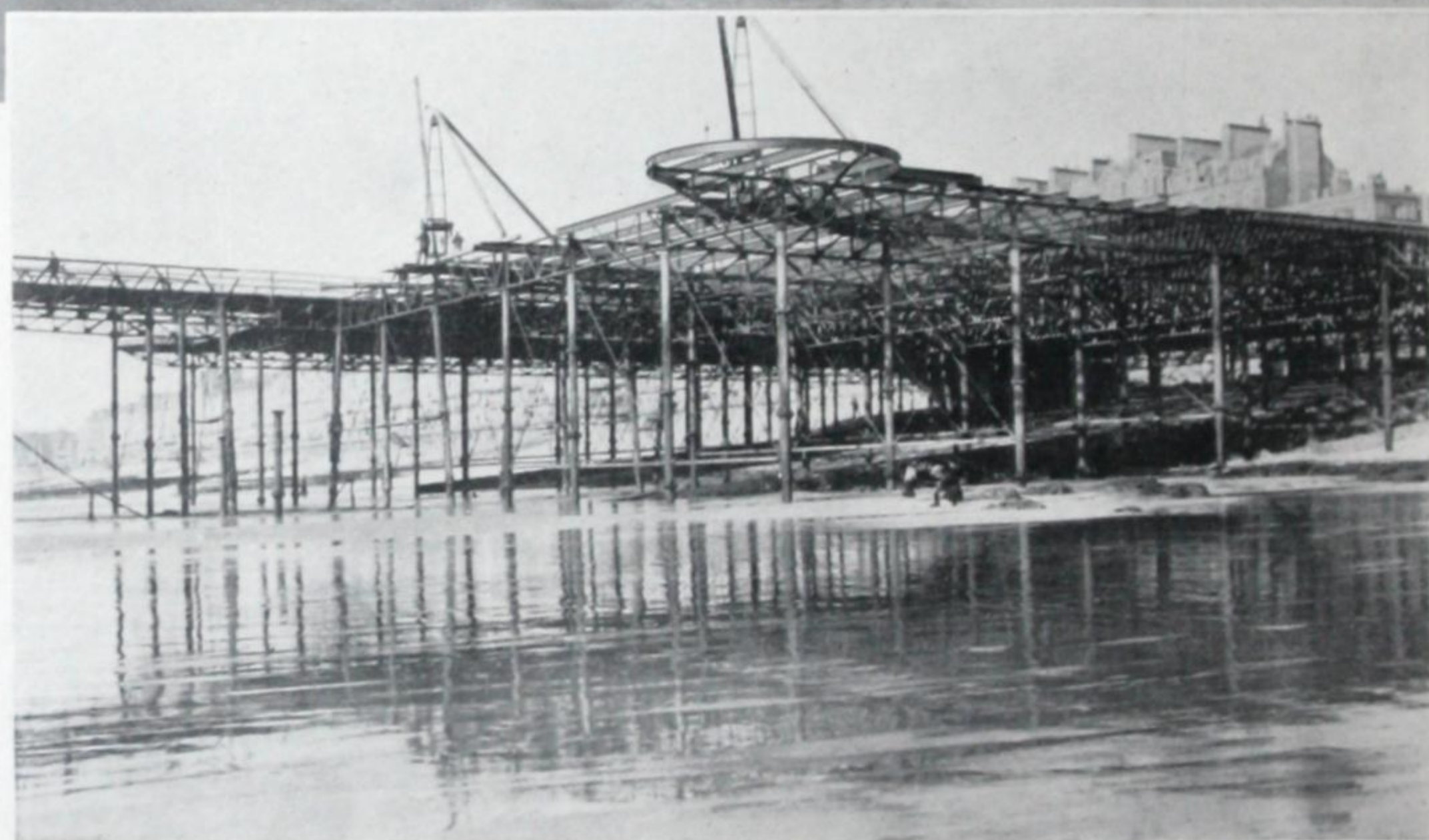
43. PIER—WESTON-SUPER-MARE, SOMERSET, ENGLAND
Welded superstructure.



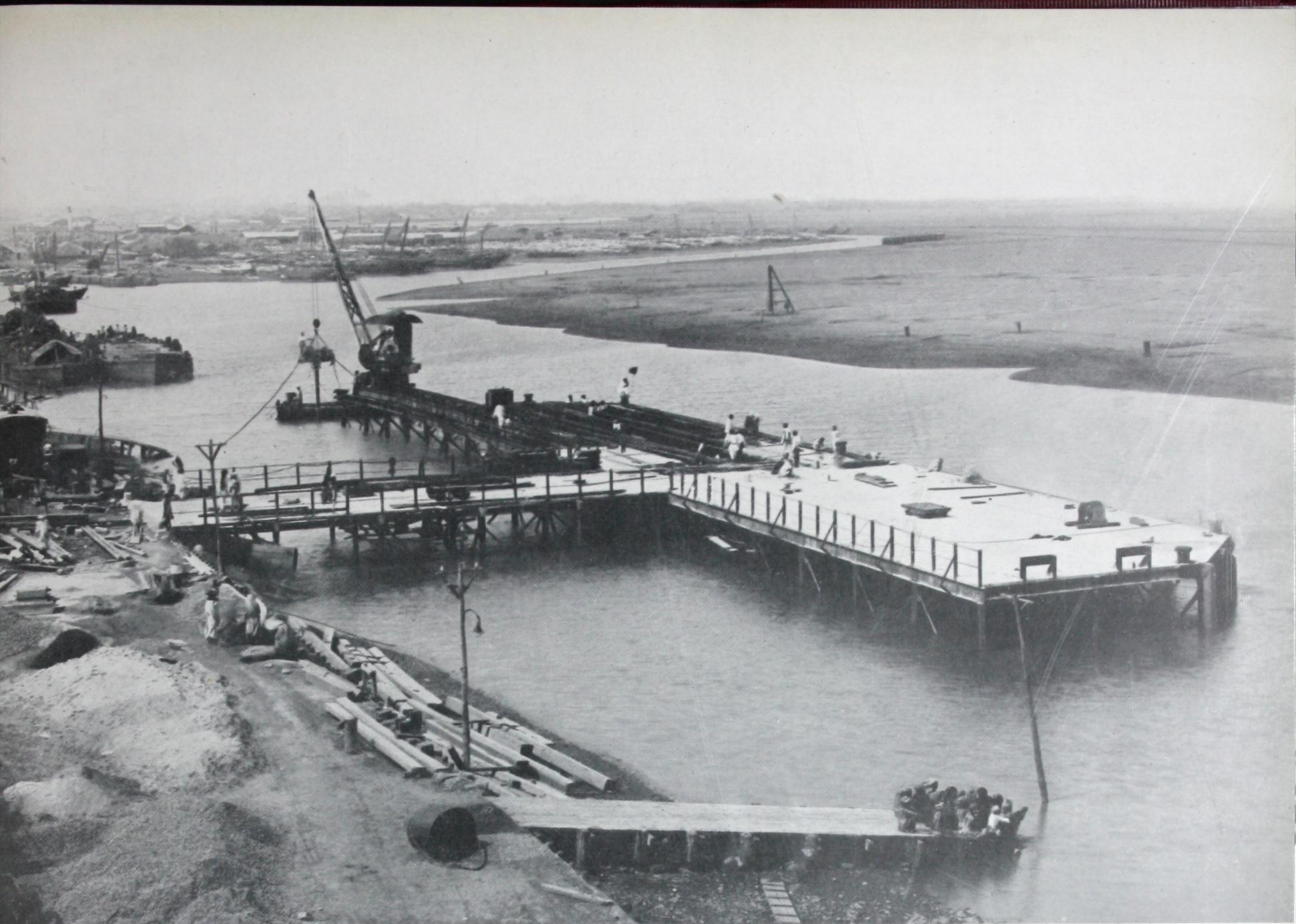
44. JETTY—KINGSNORTH, MEDWAY, ENGLAND
Screw pile jetty 2,380 feet long to serve oil tankers.



45. PIER—HASTINGS, SUSSEX, ENGLAND
Steel framed pavilion.



46. PIER—HASTINGS, SUSSEX, ENGLAND
Extension to Promenade.



47. JETTY—BHAVNAGAR, INDIA
Supported on solid steel piles with reinforced concrete deck.



48. STRAND ROAD WHARF—CALCUTTA, INDIA

Screw pile wharf 665 feet long by 120 feet wide, carrying warehouse accommodation and supported on solid steel piles 6 inches diameter with cast iron helices 54 inches diameter



49. GARDEN REACH WHARVES—CALCUTTA, INDIA

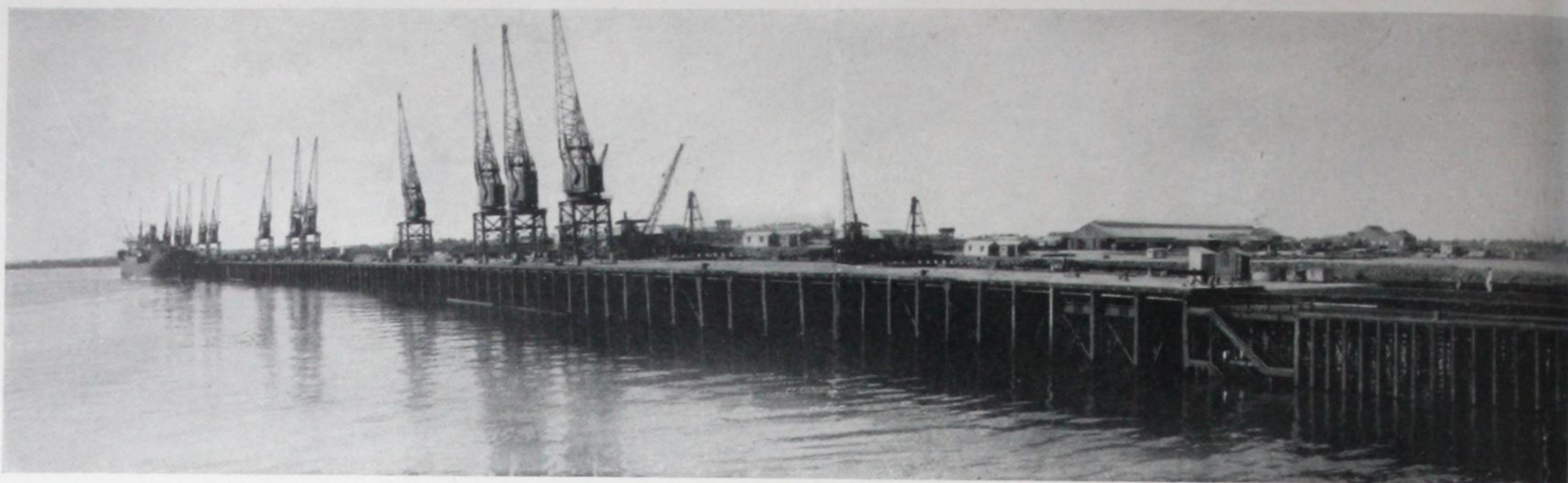
On the River Hooghly, carrying warehouse accommodation. Supported on 5,000 solid steel piles 6 inches diameter with cast iron helices 54 inches diameter.



50. BROOKING STREET WHARF—RANGOON, BURMA
The front portion carried on Screwcrete cylinders 42 inches diameter with cast iron helices 96 inches diameter.



51. BROOKING STREET WHARF—RANGOON
During construction.



52. WHARVES—BEIRA, PORTUGUESE EAST AFRICA

Deep water wharf, 2,700 feet long, carried on 36 inches diameter cast iron cylinders with 84 inches diameter cast steel helices. Wharf for barges carried on 7 inches diameter solid steel piles and 54 inches diameter cast iron helices.



53. APPROACH JETTY—BEIRA, PORTUGUESE EAST AFRICA
Supported on 6 inch diameter solid steel piles with 54 inches diameter helices.



54. DEEP WATER JETTY—PERSIAN GULF
Carried on 6 inches diameter solid steel piles with 48 inches
diameter cast iron helices.

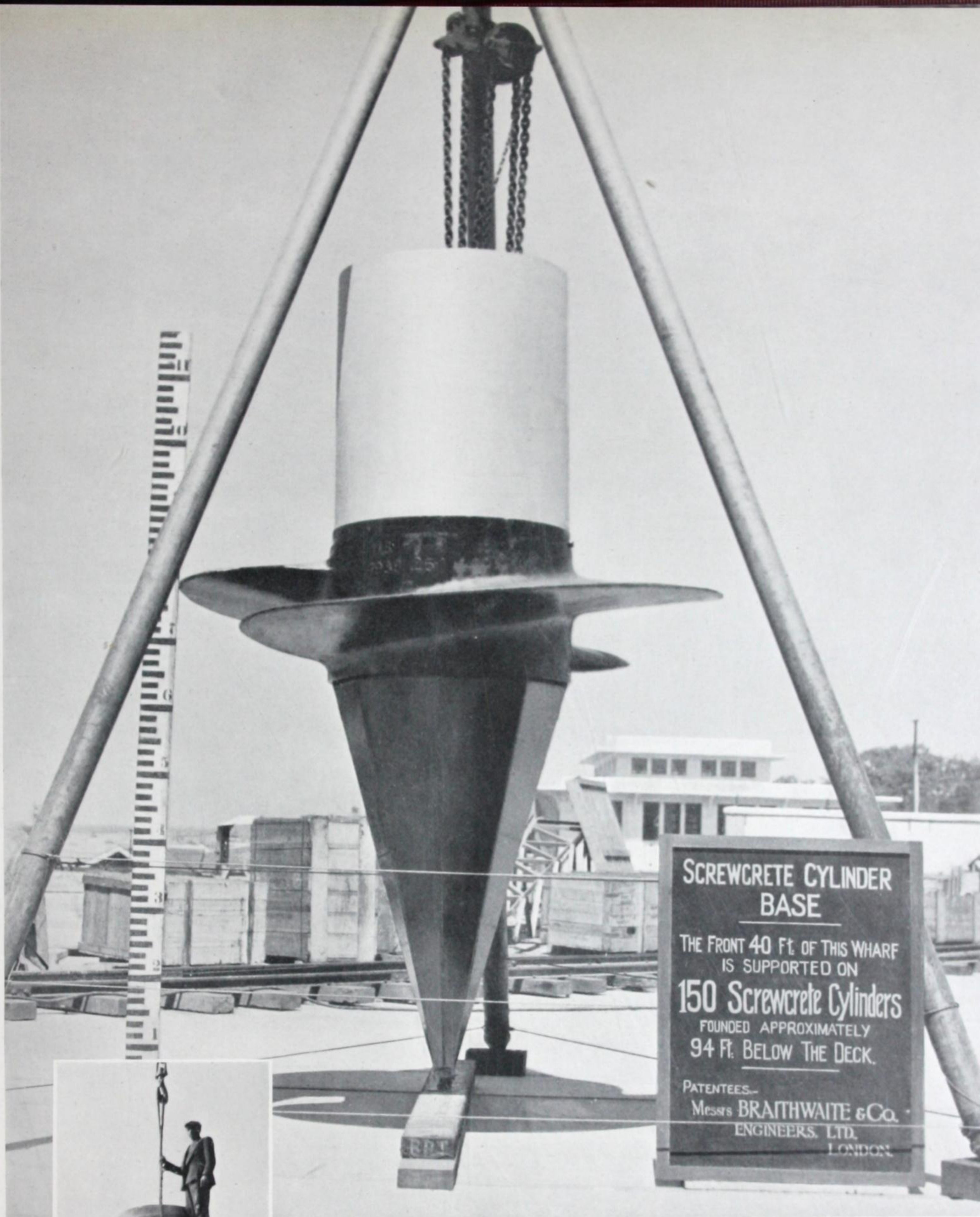


55. JETTY—BEE NESS, THAMES ESTUARY, ENGLAND
Carried on 6 inches diameter solid steel piles with 48 inches diameter
cast iron helices.

[BLANK PAGE]



CCA



**SCREWCRETE CYLINDER
BASE**

THE FRONT 40 FT. OF THIS WHARF
IS SUPPORTED ON
150 Screwcrete Cylinders
FOUNDED APPROXIMATELY
94 FT. BELOW THE DECK.

PATENTEES—
Messrs **BRAITHWAITE & Co.**
ENGINEERS, LTD.
LONDON.

SCREWCRETE

SCREWCRETE

SCREWCRETE piles are the modern development of the older type of metal screw pile, sometimes referred to as the Mitchell pile. In the larger sizes, in which the diameter of the shaft may be as much as 3 ft. 6 ins., Screwcrete piles are often referred to as Screwcrete cylinders.

The principle upon which the system is based is briefly as follows:—

A cylindrical casing of welded steel sheet or, in some instances, reinforced concrete, is connected at its lower end to a helix which usually consists of cast iron or, in the larger sizes, welded mild steel or reinforced concrete. A mandril of special design is connected directly to the helix, and also the casing at suitable intervals by means of expanding grips. The whole assembly is pitched in position and screwed to the necessary depth by means of electrically driven screwing plant. The mandril is then disconnected from the helix and casing, and withdrawn. Any water which may have found its way into the casing is removed and a reinforced concrete column is moulded inside the casing.

In order to prevent the entry of water, the helix is usually provided with a water-tight pointed nose. Provision is made in the nose itself for water-jetting, if the nature of the strata through which the pile has to pass renders this procedure necessary.

Screwcrete piles and cylinders are most suitable for use in conditions which necessitate driving piles through water in order to carry a superstructure which imposes heavy concentrated vertical loads on the cylinders in addition to lateral forces. Such conditions are met with in the case of deep water wharves and jetties and the intermediate piers of river-crossing bridges.

The principle of the Screwcrete pile permits the shaft to be designed to resist lateral loads without the use of under-water bracing. The result is a form of construction which is both economical in cost and rapid in execution.

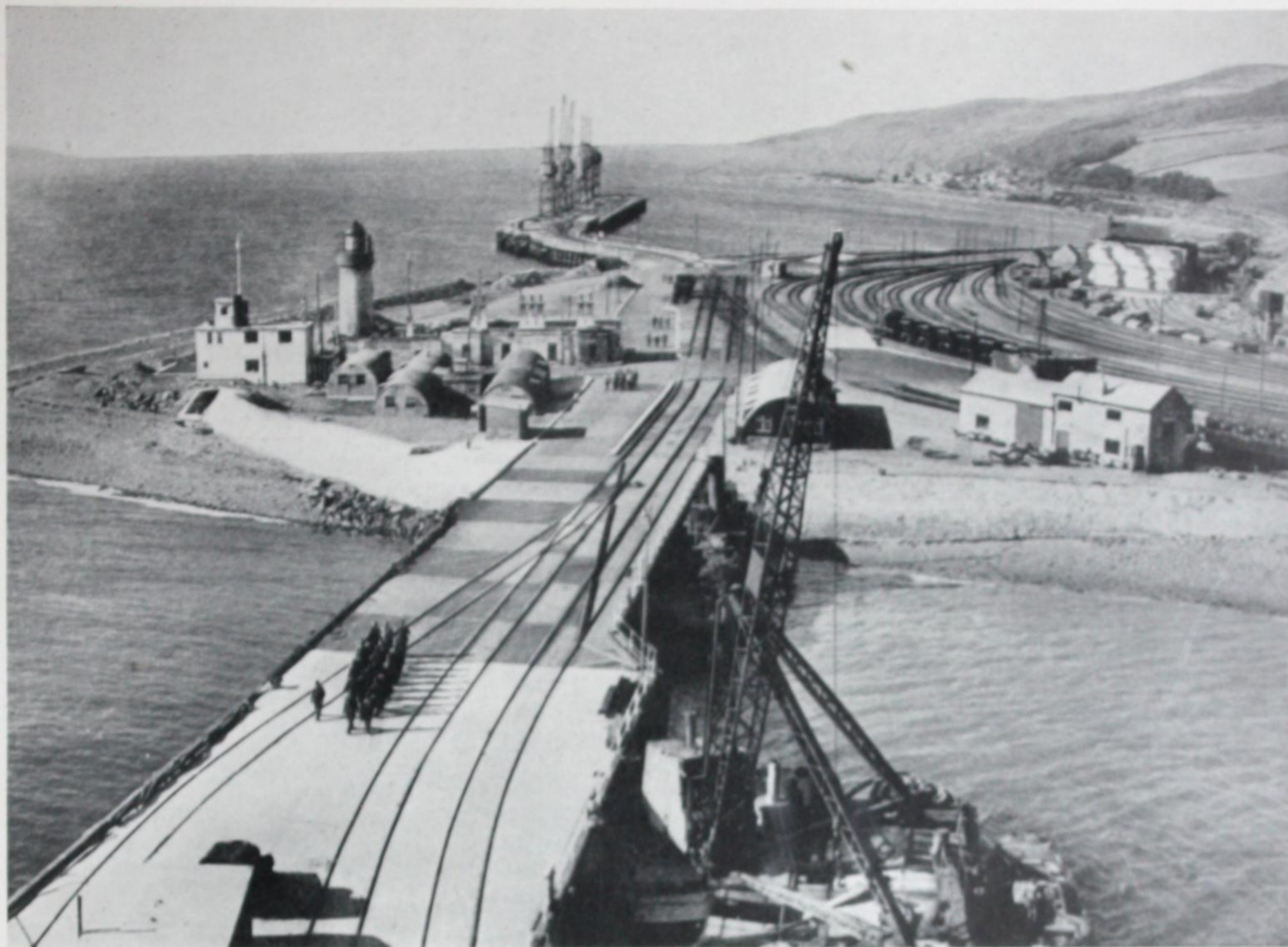
When these conditions do not exist, as on a normal dry land building site, the use of Screwcrete piles is only justified in special circumstances such as those in which the vibration caused by driving piles would be objectionable.

The depth to which Screwcrete piles are driven is usually determined by a soil investigation based on the modern principles of soil mechanics.

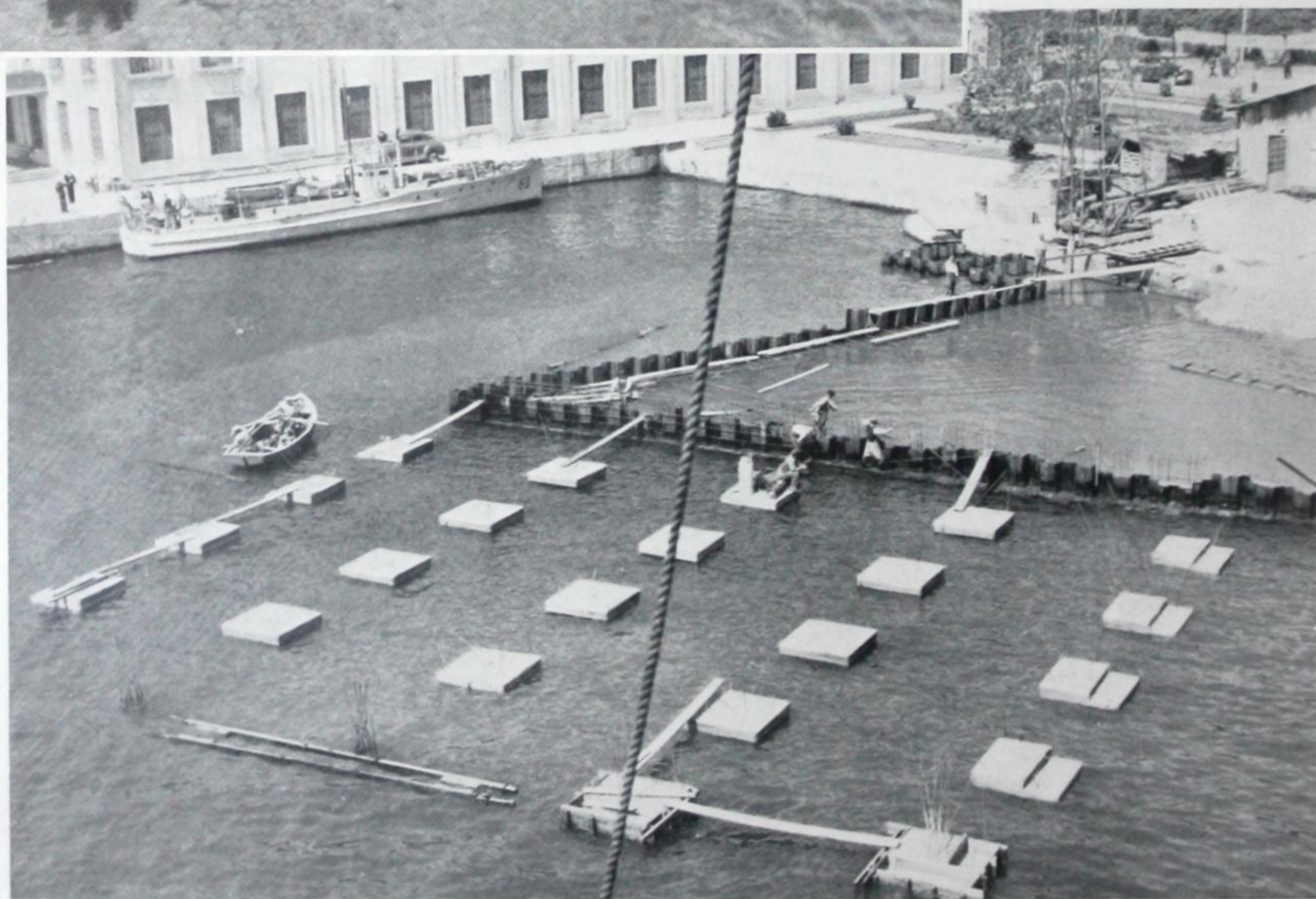
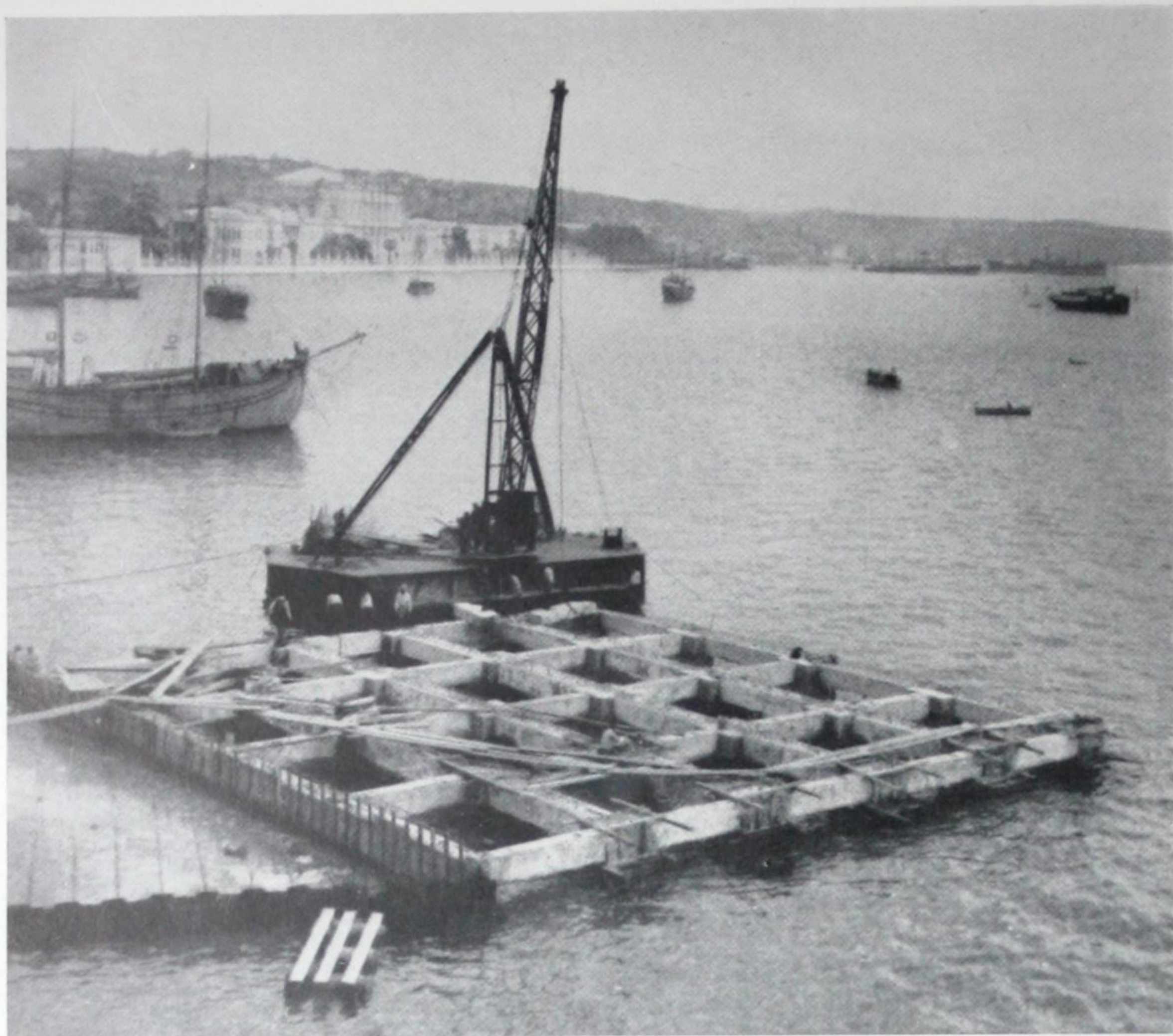
Owing to the large bearing area provided by the helix the penetration of Screwcrete piles is usually considerably less than that which is necessary when other types are used.

In compact sand and similar types of strata, Screwcrete cylinders are each capable of carrying loads of 400 tons or more, in addition to the bending moments produced by lateral forces.

When calculated on the basis of cost per ton of carrying capacity, the cost of Screwcrete piles, used in the conditions described above, will usually be found to be less than that of most other forms of construction.



56. TWO DEEP WATER WHARVES—
WEST COAST, SCOTLAND



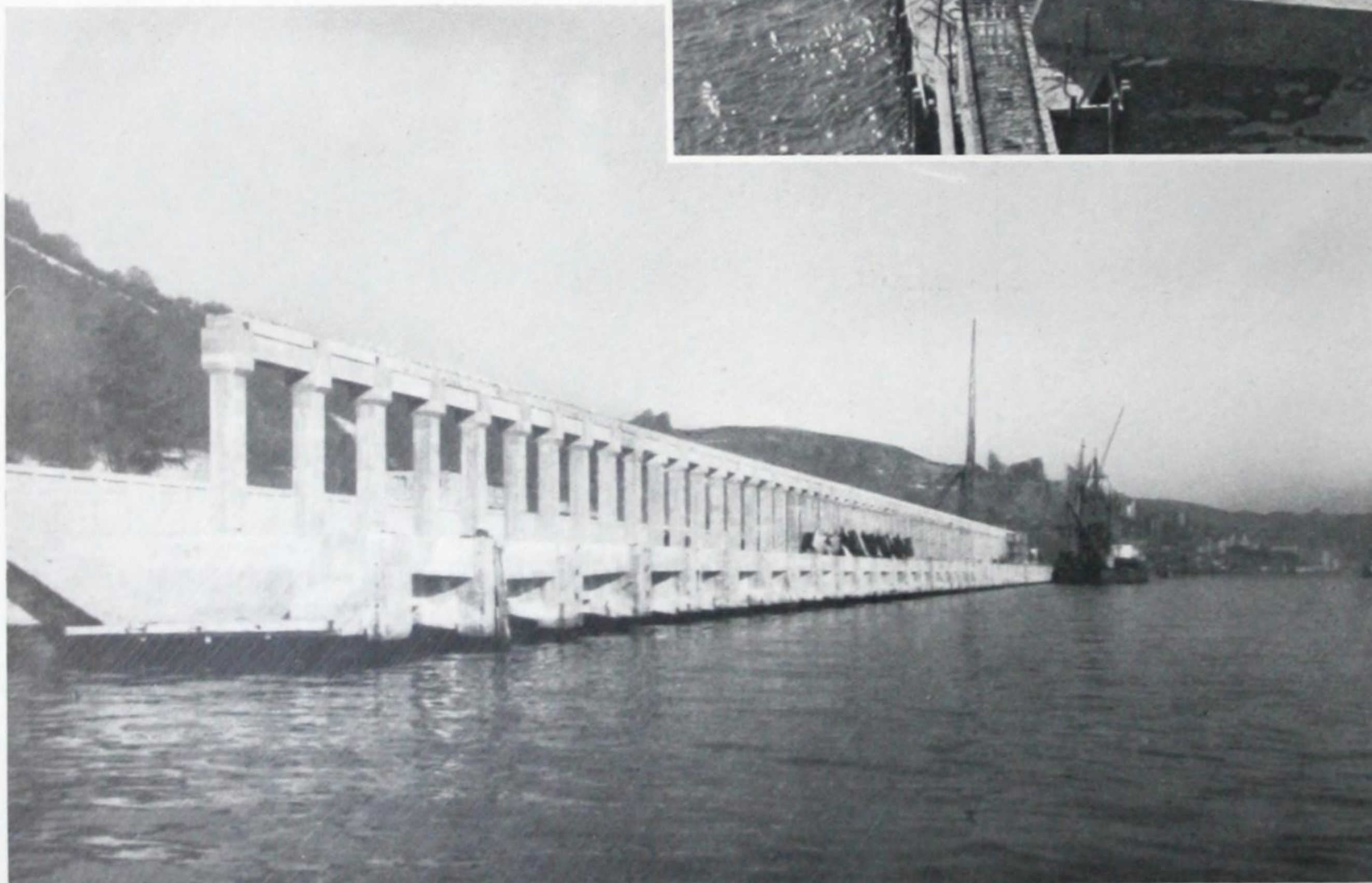
57. JETTY AT KABATAŞ—TURKEY

Reinforced concrete caps cast on the heads of the 19 inches diameter
Screwcrete piles.

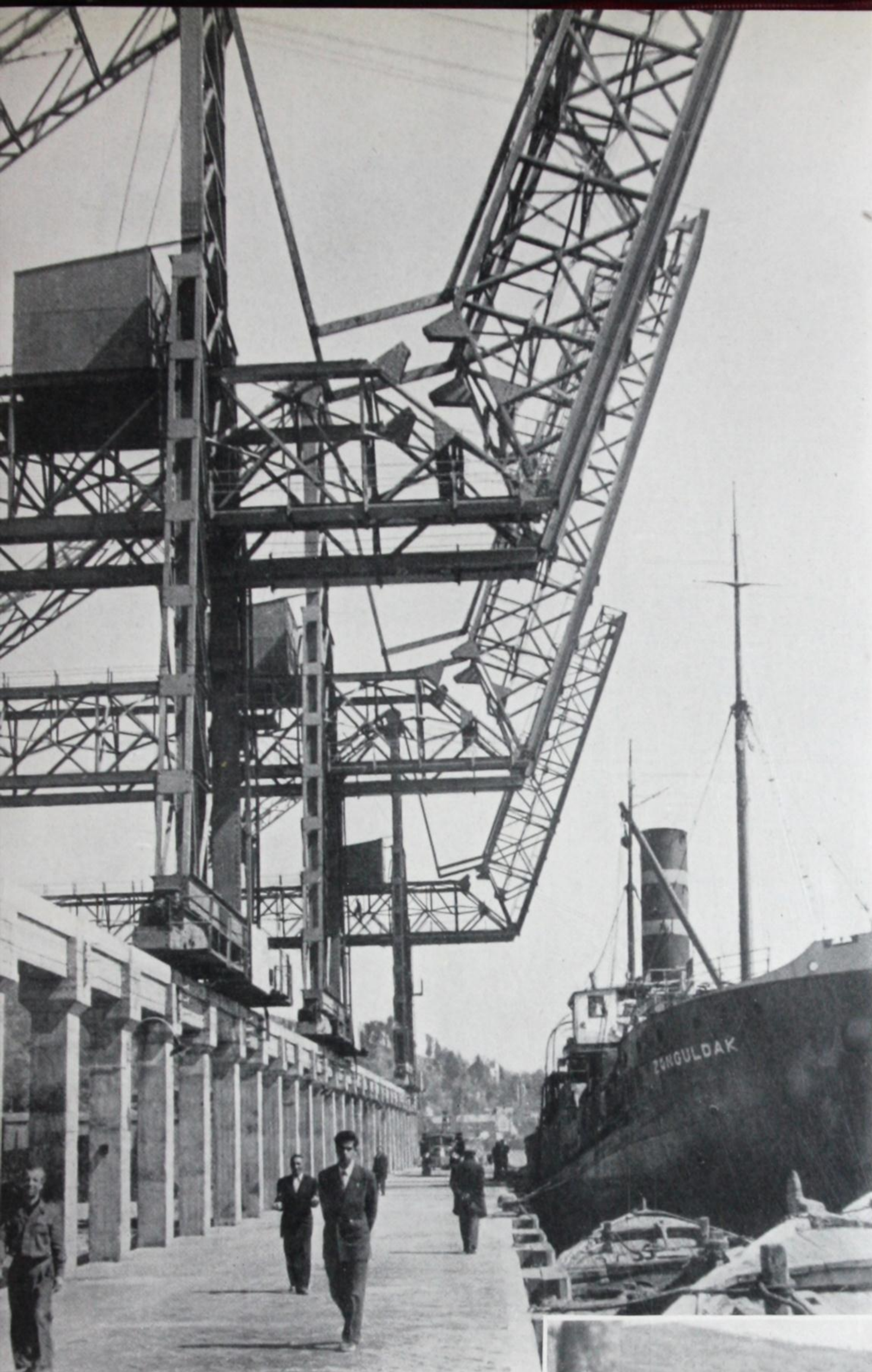


58. DEEP WATER JETTY—IZMIT, TURKEY
Reinforced concrete jetty supported on Screwcrete cylinders.

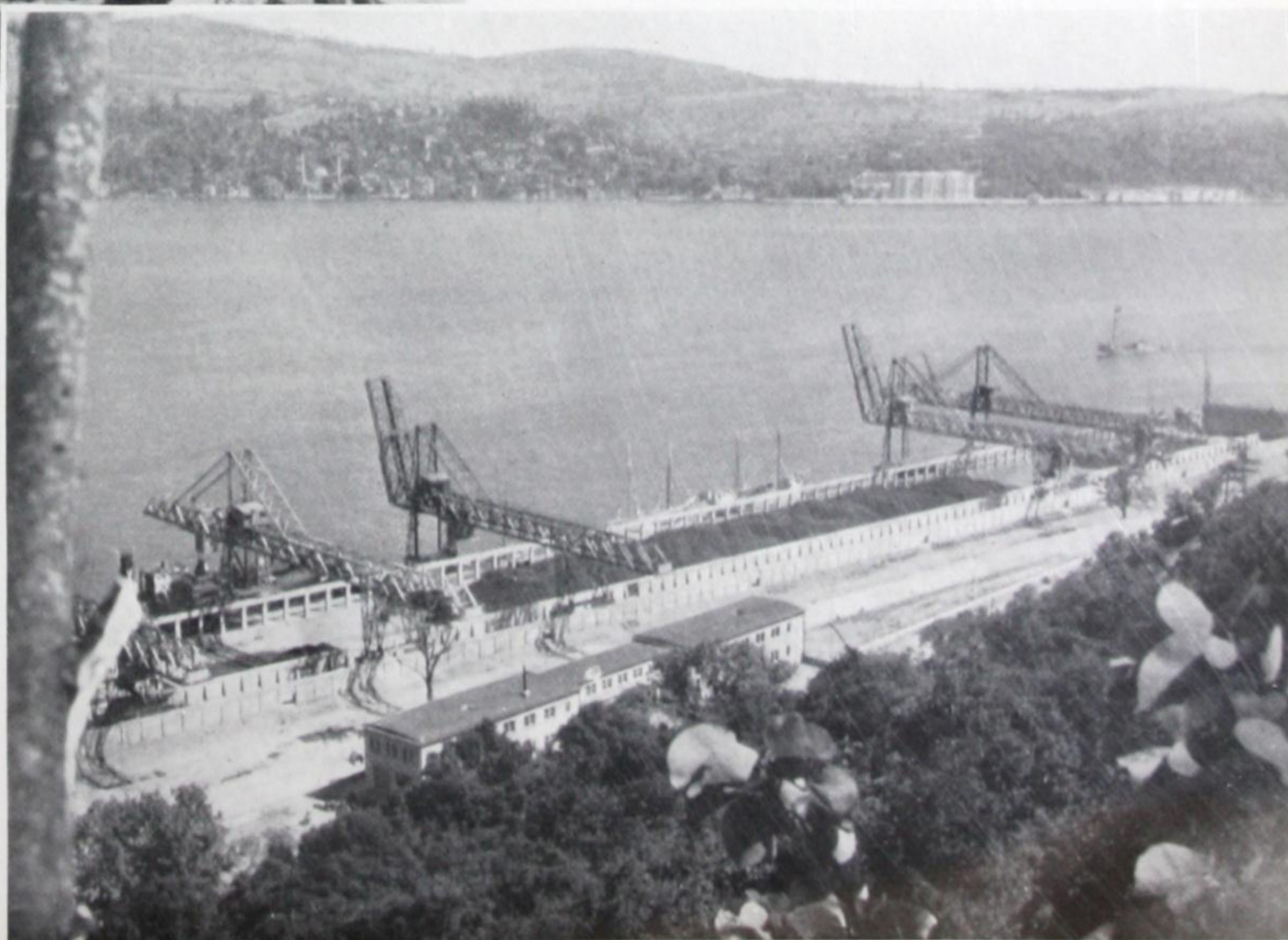
59. COAL HANDLING WHARF—KURUÇEŞME,
During construction.



60. COAL HANDLING WHARF—KURUÇEŞME, TURKEY
View after completion.

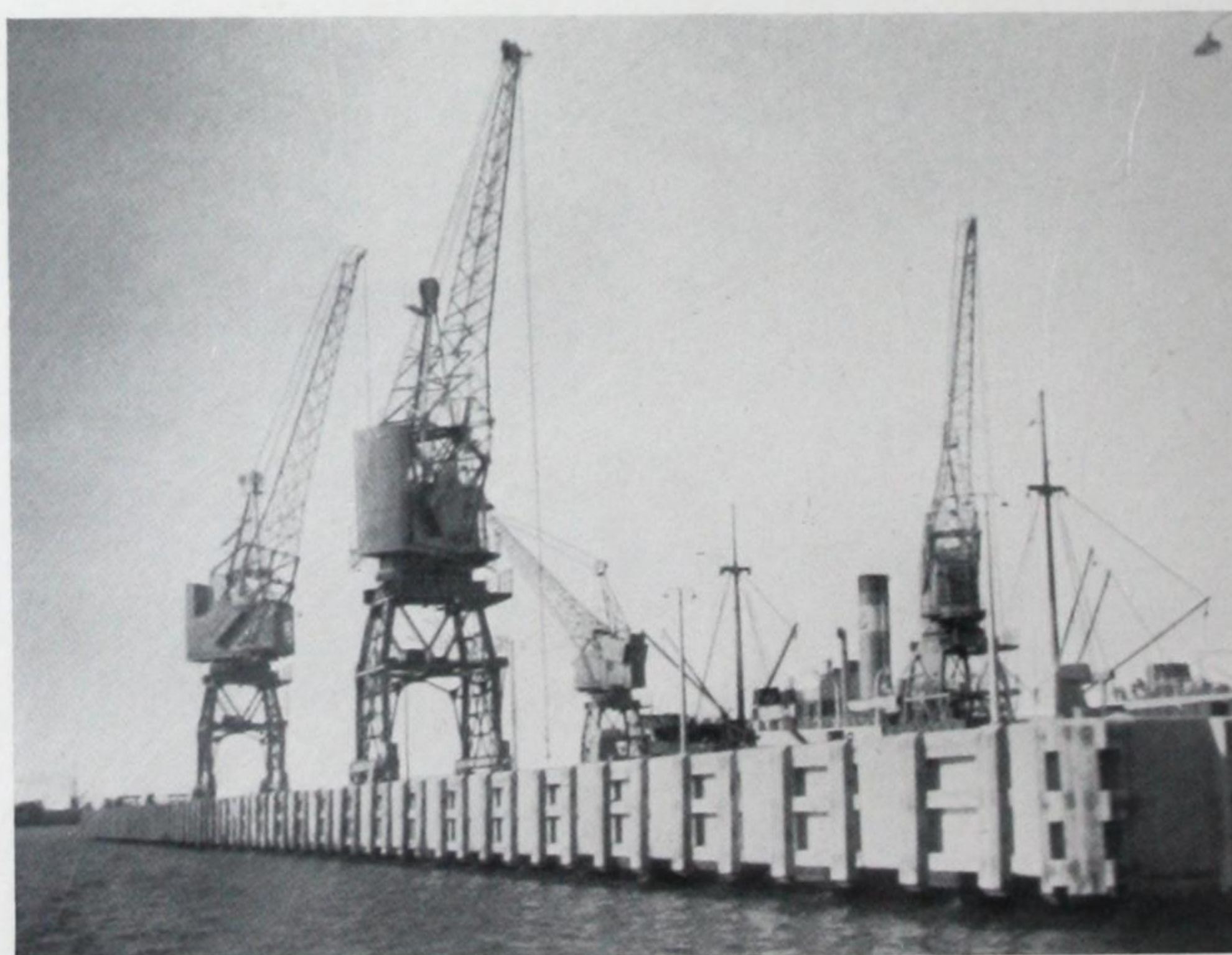


61. COAL HANDLING WHARF—KURUÇEŞME,
General view.

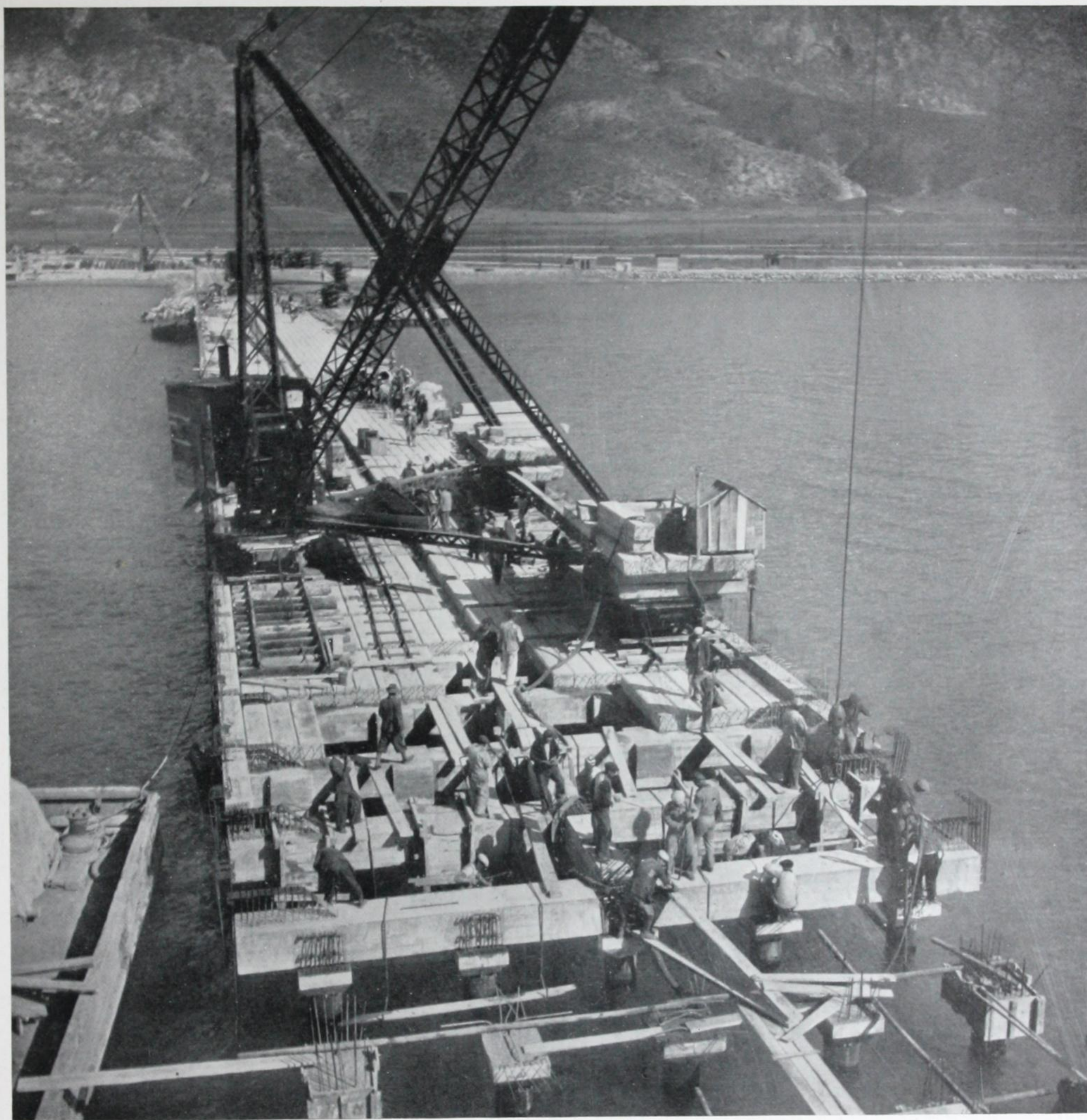




62. DEEP WATER JETTY—ISKENDERUN, TURKEY
 Jetty for the Turkish Ministry of Communications.
 Supported on Screwcrete cylinders.



63. DEEP WATER JETTY—ISKENDERUN



64. DEEP WATER JETTY—ISKENDERUN,
During construction.



65. BERGAMA BRIDGE—TURKEY
Reinforced concrete road bridge carried on
Screwcrete cylinder piers.



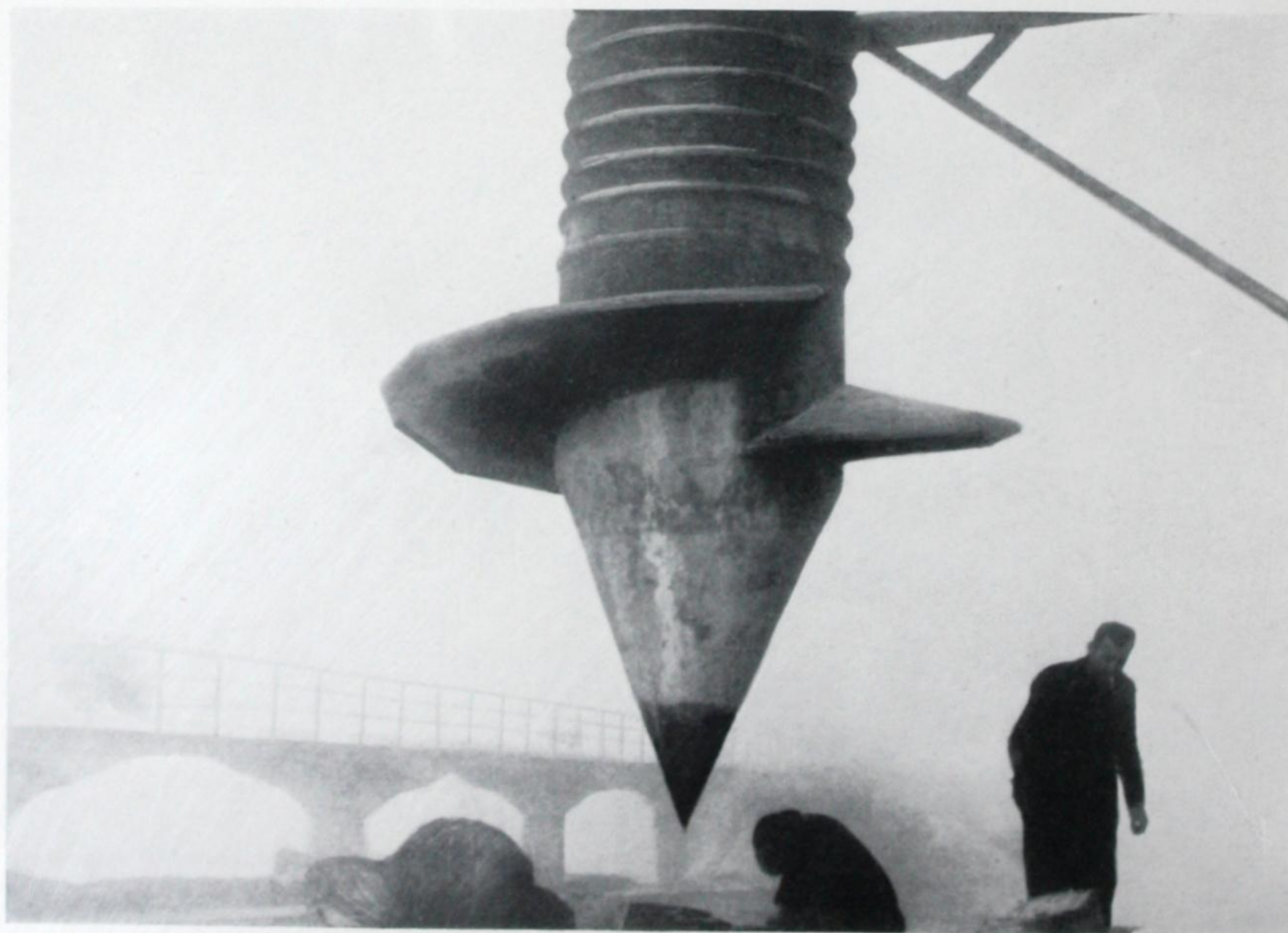
66. BERGAMA BRIDGE



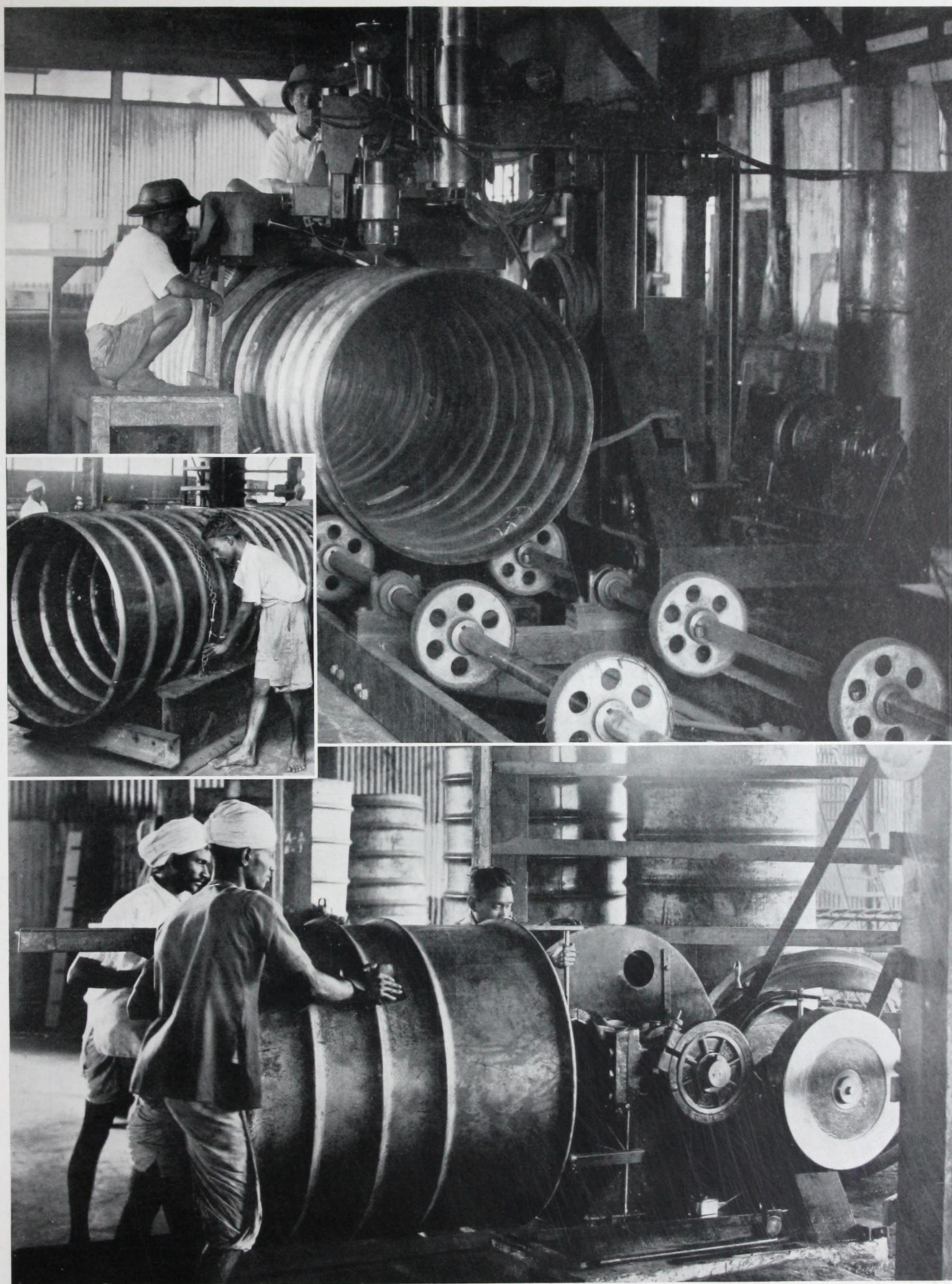
67. PESHAWAR VALE—PAKISTAN
One of four road bridges carried on
Screwcrete cylinder piers.



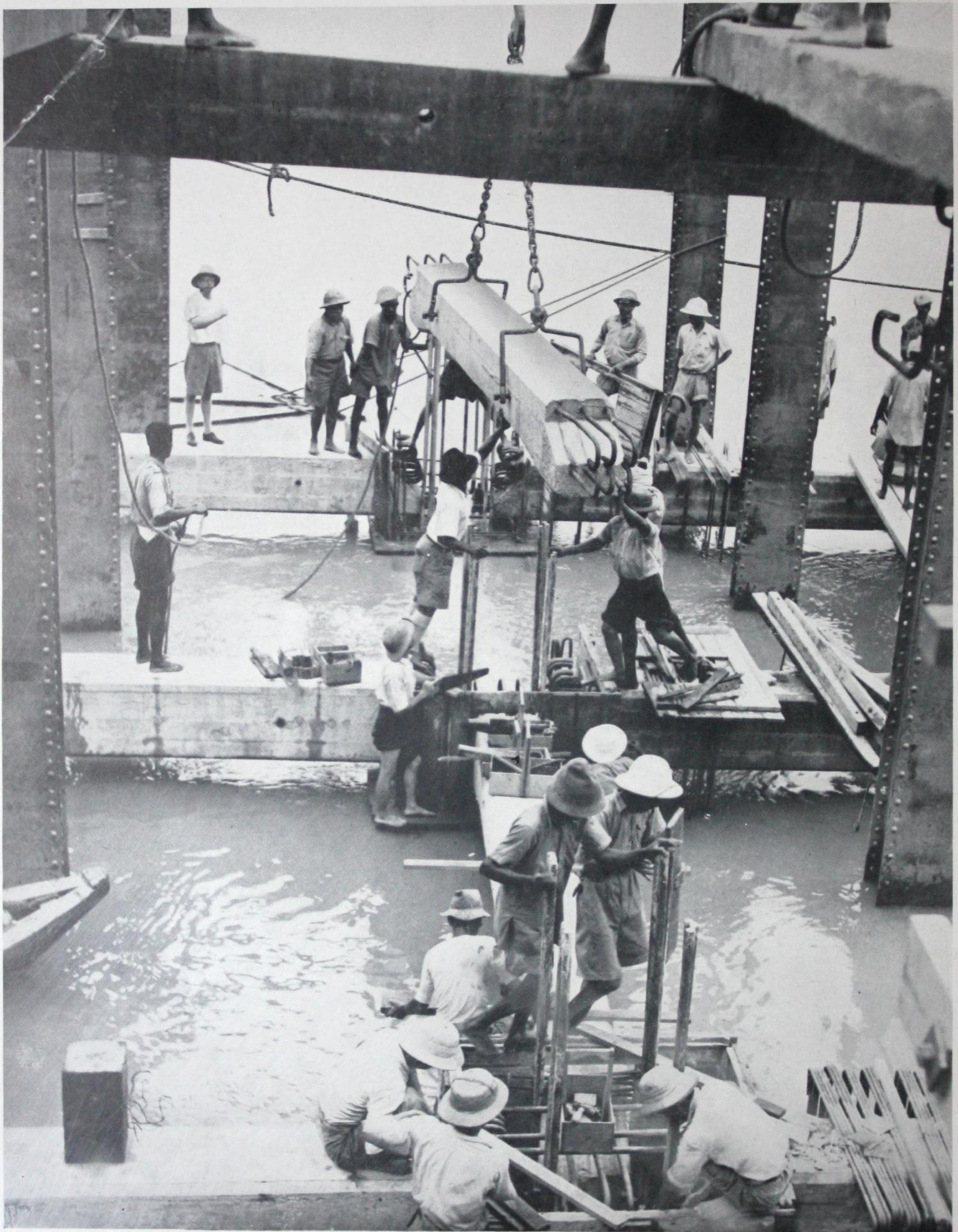
68. REINFORCEMENT OF CONCRETE HELIX PREPARATORY TO CASTING



69. REINFORCED CONCRETE HELIX.
Attached to Screwcrete cylinder ready for screwing.

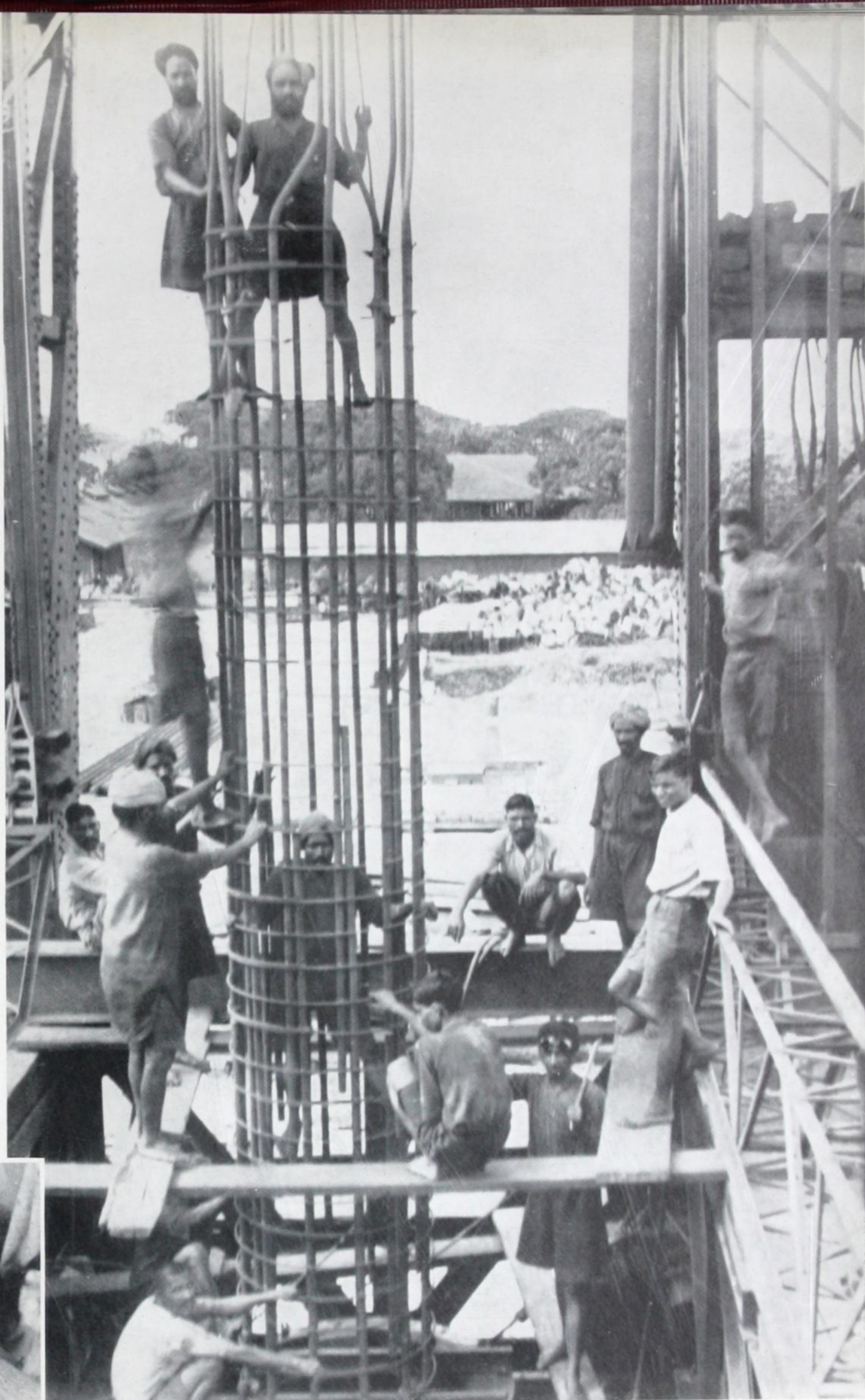


70. FABRICATION OF SCREWCRETE CYLINDERS



71. PLACING PRECAST CONCRETE BRACING UNITS
TO SCREWCRETE CYLINDERS

72. PLACING REINFORCEMENT
FOR A SCREWCRETE
CYLINDER

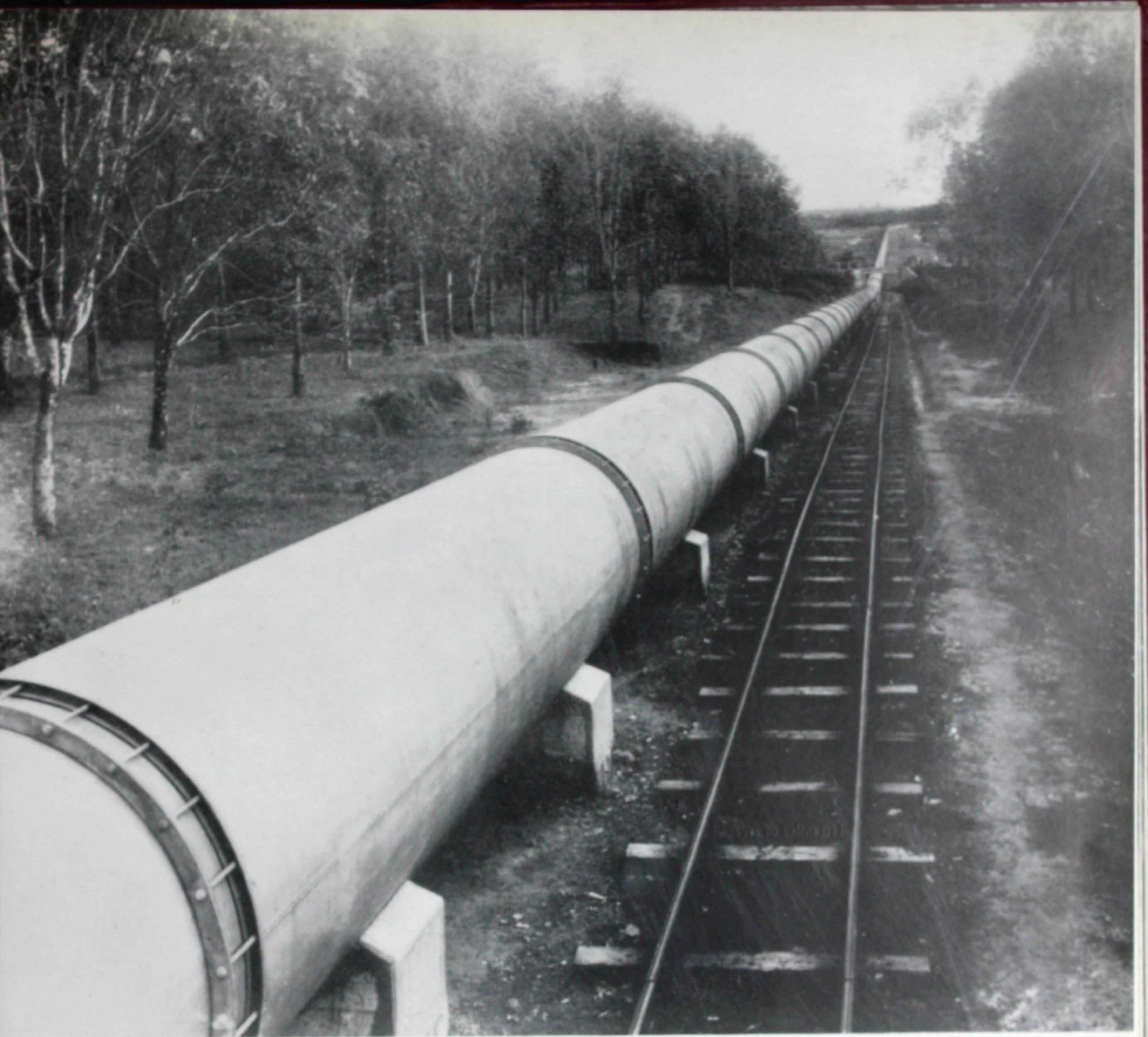


73. POURING CONCRETE
IN A SCREWCRETE
CYLINDER

[BLANK PAGE]



CCA



PIPELINES

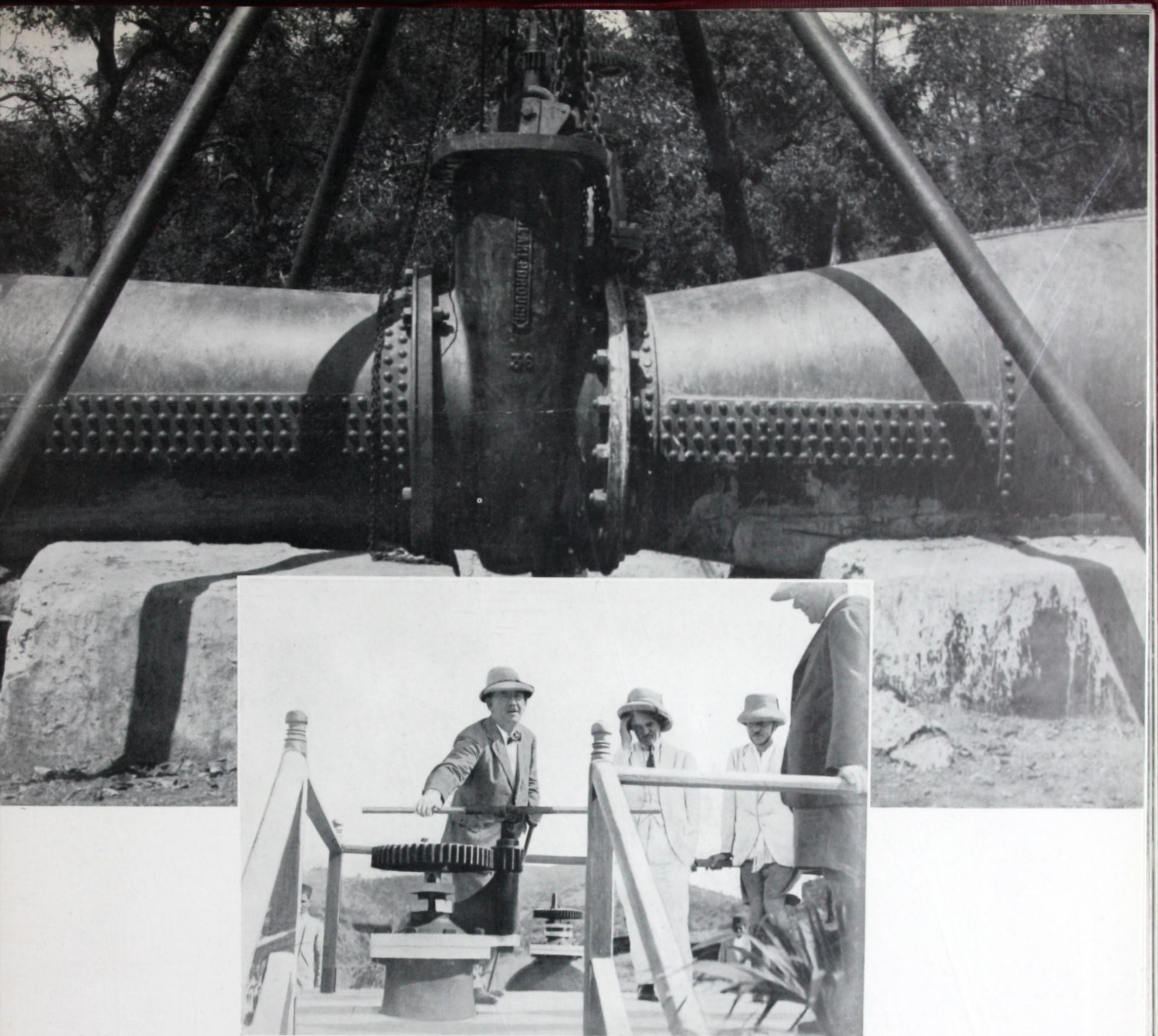


74. LAKE TANSA PIPELINE—BOMBAY, INDIA

110 miles of riveted steel pipes 57 and 72 inches diameter involving 98,000 tons of pipes.



75. LAKE TANSA PIPELINE—BOMBAY



76. LAKE TANSIA PIPELINE, BOMBAY
Top: One of the valves. Inset: The official opening.



77. KASHELI BRIDGE—INDIA
Across Bassein Creek, near Bombay to carry a
roadway and 72 inches diameter riveted water
mains to supply water to Bombay.





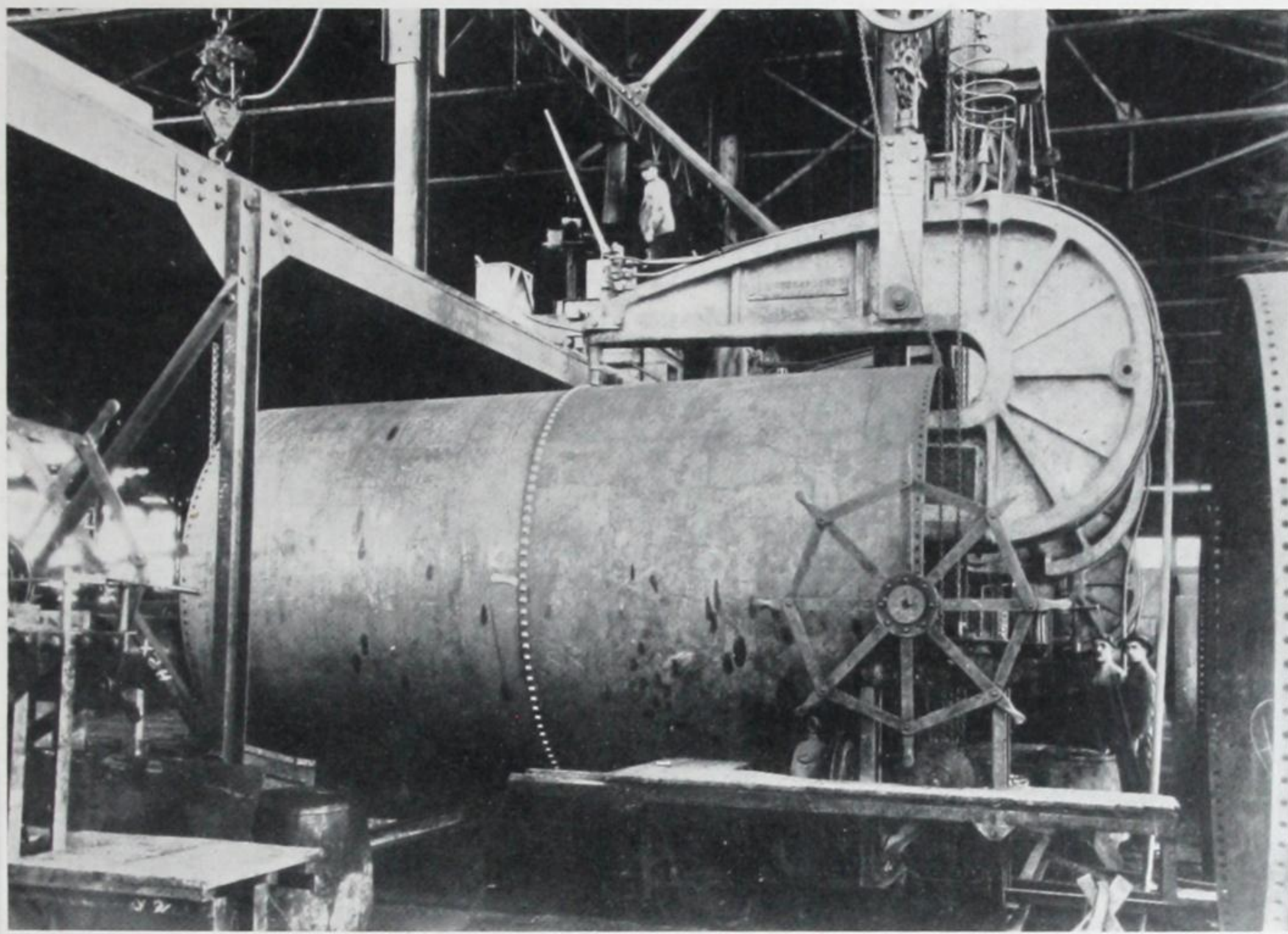
78. PIPELINE—RANGOON

43 miles of welded steel pipe, 56 inches diameter, with spun concrete lining.
Manufactured and laid by the Braithwaite,
Burn & Jessop Construction Company, Ltd.

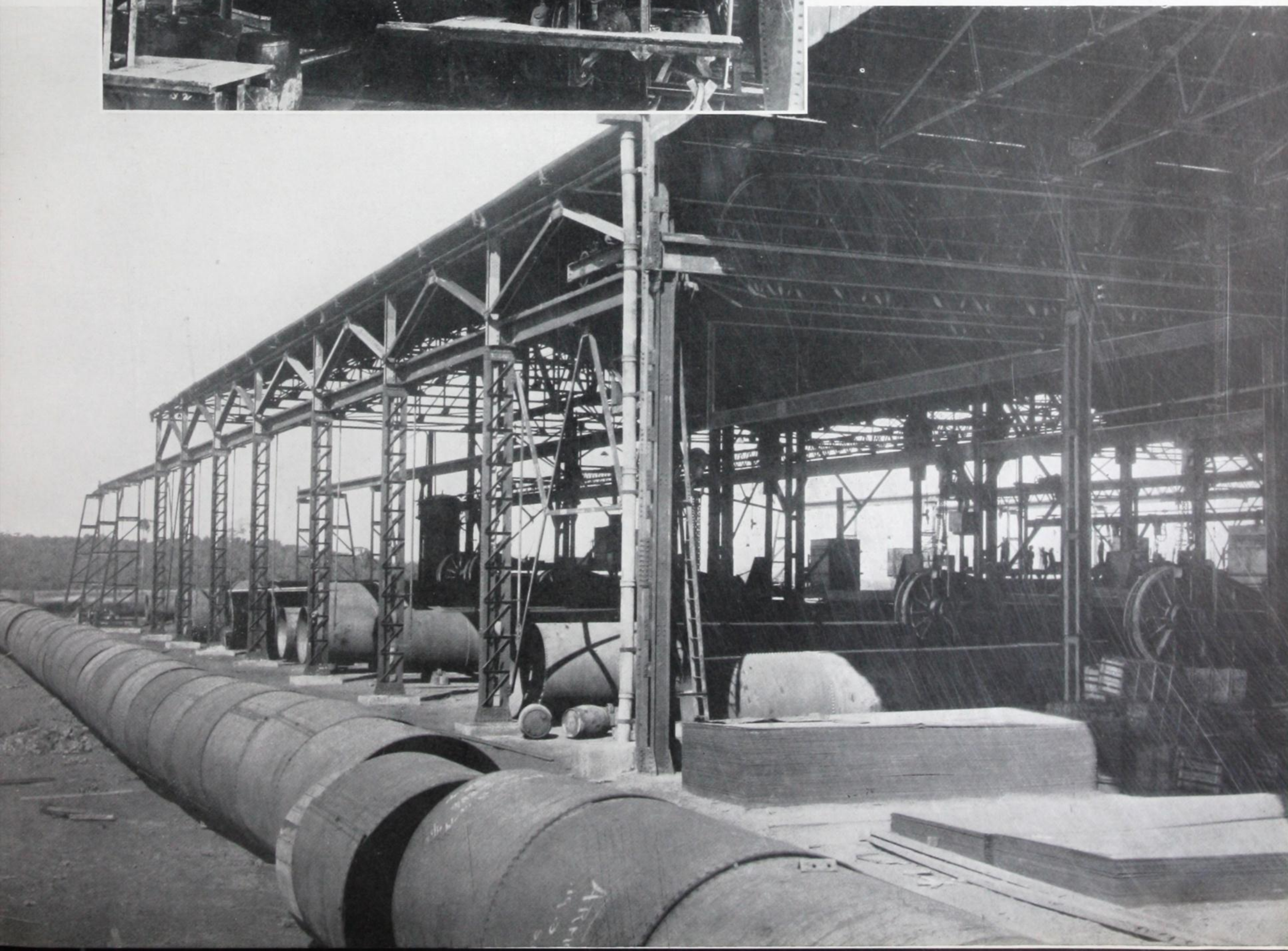


79. SAO PAULO PIPELINE—BRAZIL

Steel water mains 2.5 and 1.8 metres diameter which required 20,000 tons of pipes.



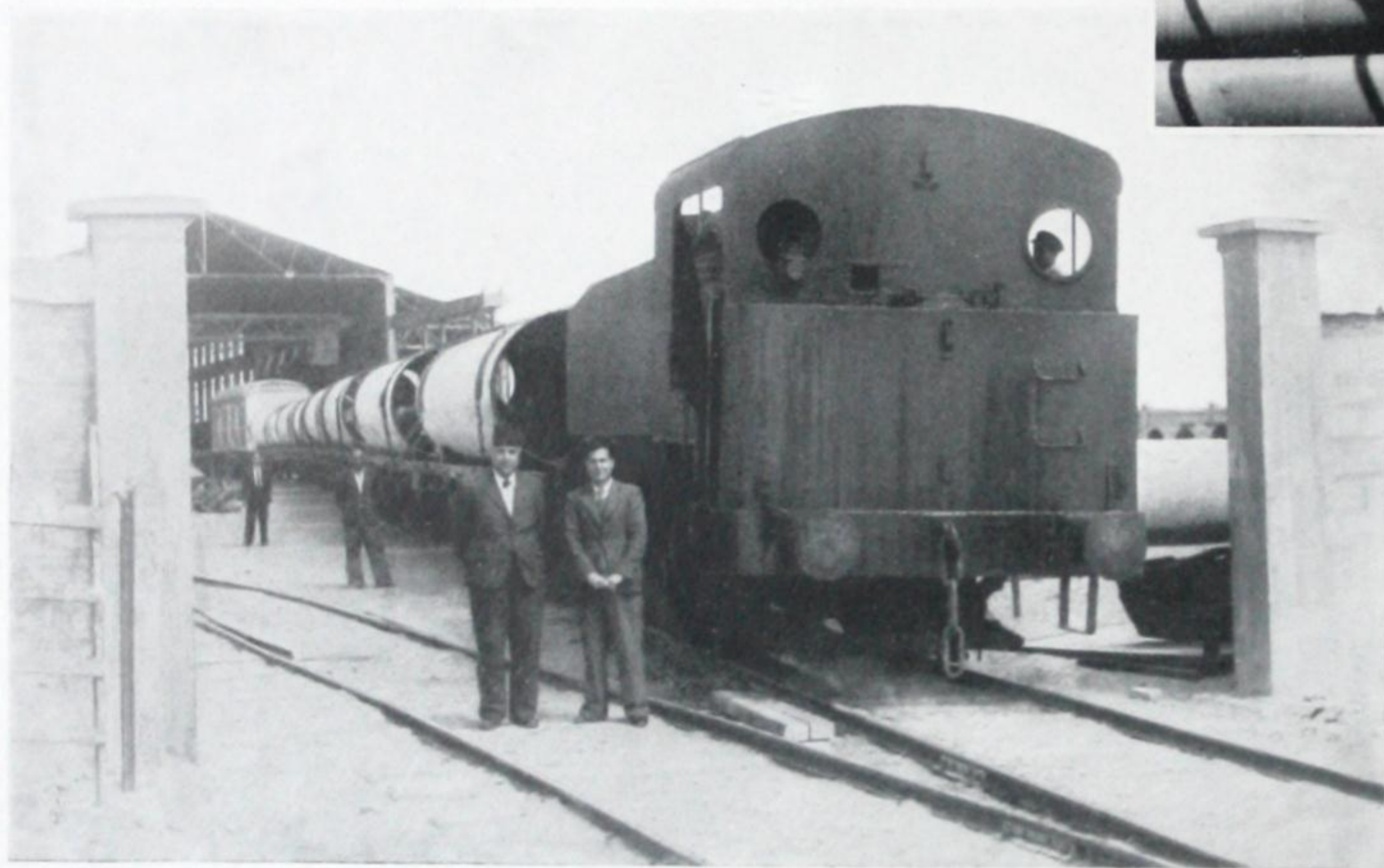
80. SAO PAULO PIPELINE-BRAZIL.
Pipe Lengths during construction in
the temporary factory near the site.



81. RISING MAIN—KAFR FAROUK, EGYPT

8 miles of welded steel pipes 46 and 60 inches diameter with spun bitumen lining.

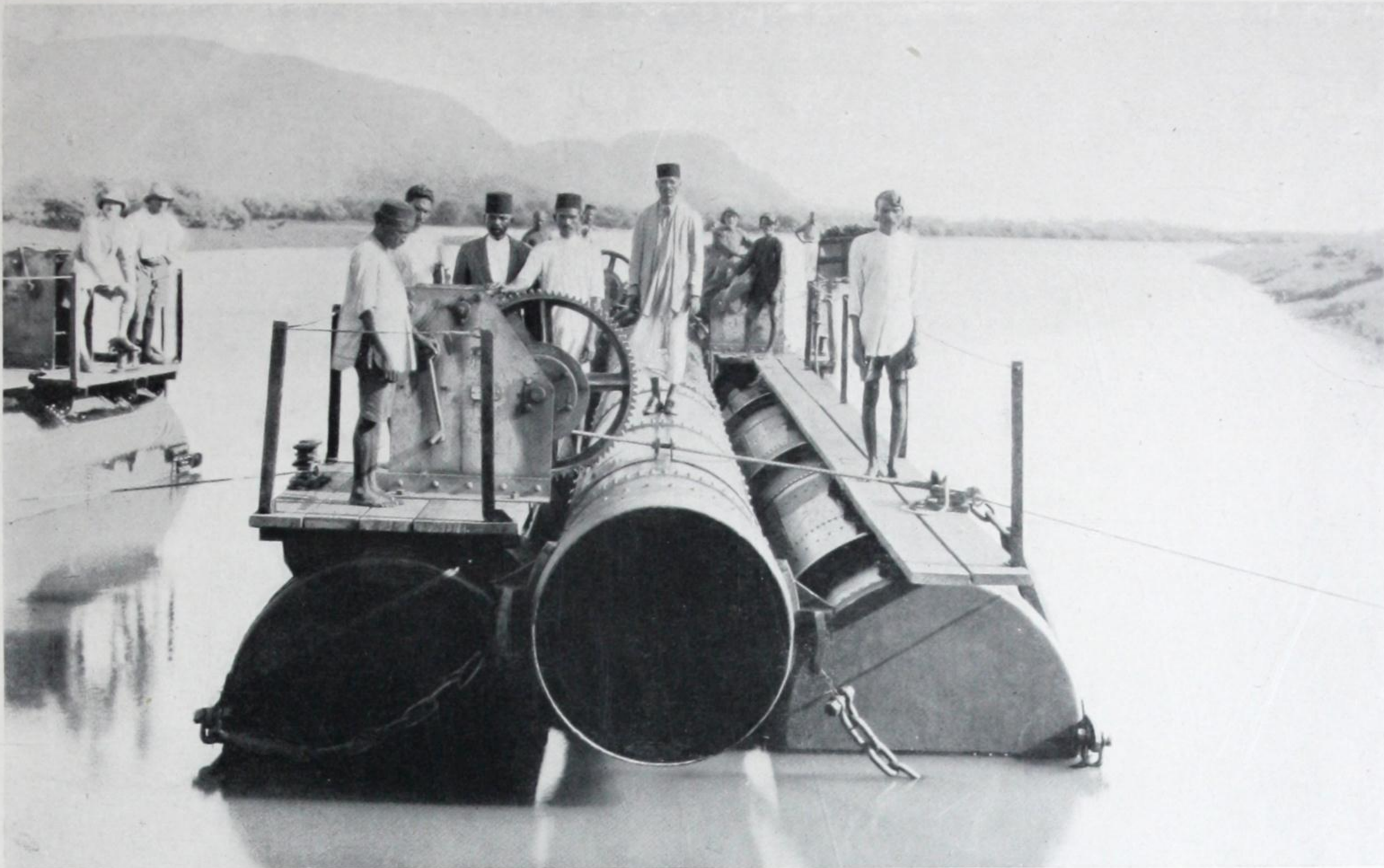
81a. Pipes awaiting despatch in the factory at Port Said.



82. Train of pipes leaving the Port Said Factory.



83. Laying pipes.



84. BOMBAY BACK BAY RECLAMATION
Riveted floating pipeline, 36 inches diameter, for pumping dredged material.

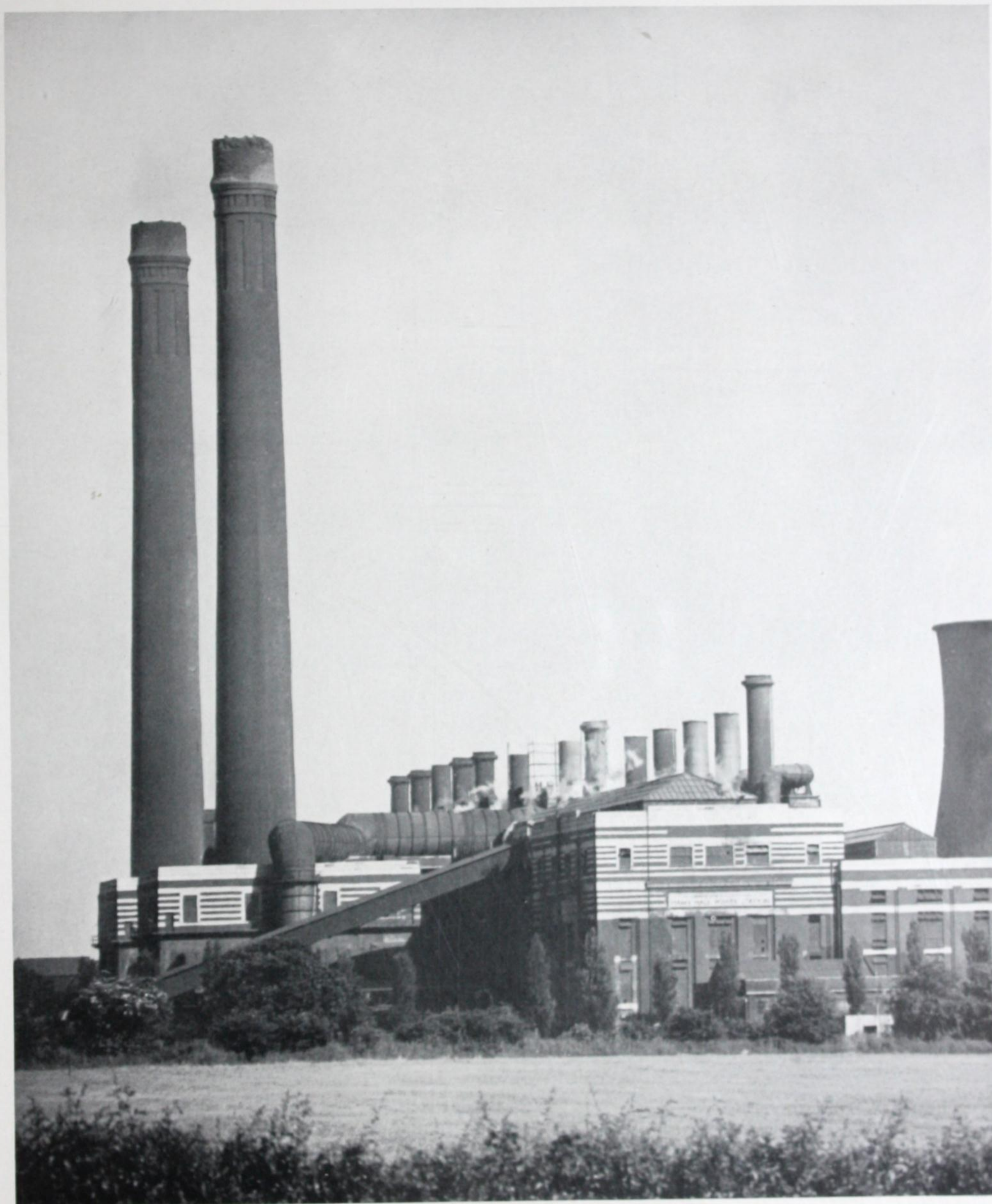


85. BOMBAY BACK BAY RECLAMATION

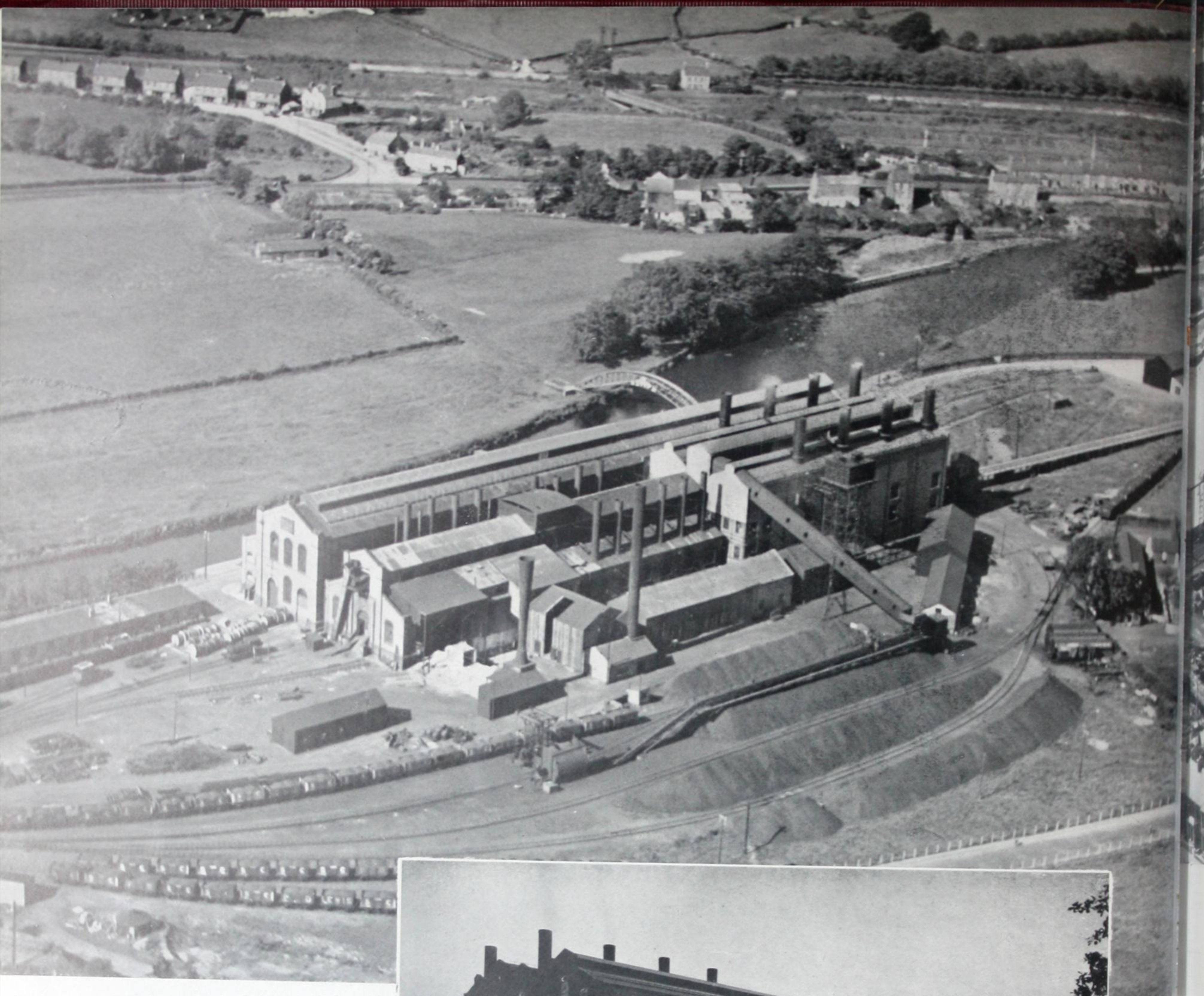
[BLANK PAGE]



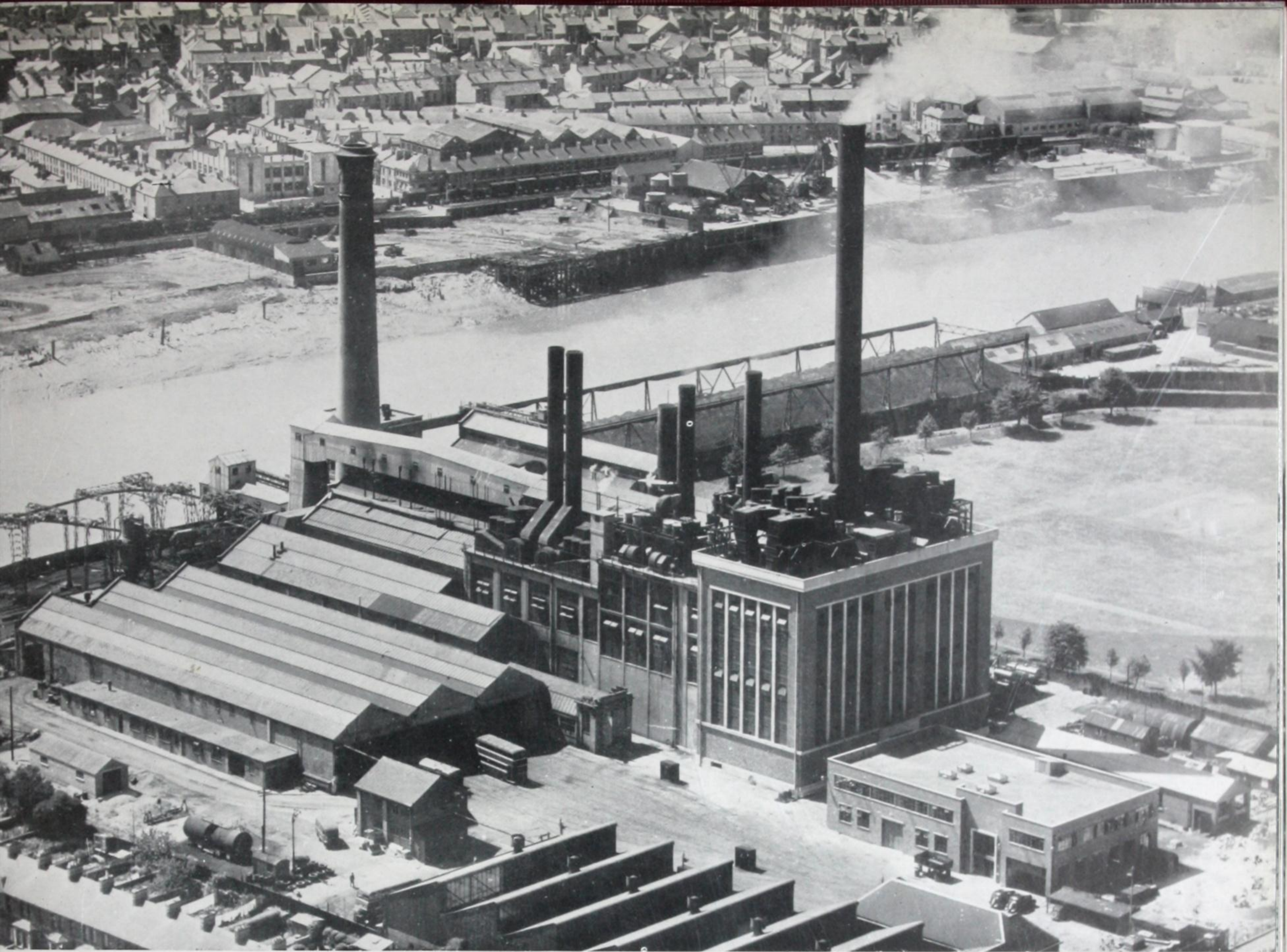
CCA



POWER STATIONS



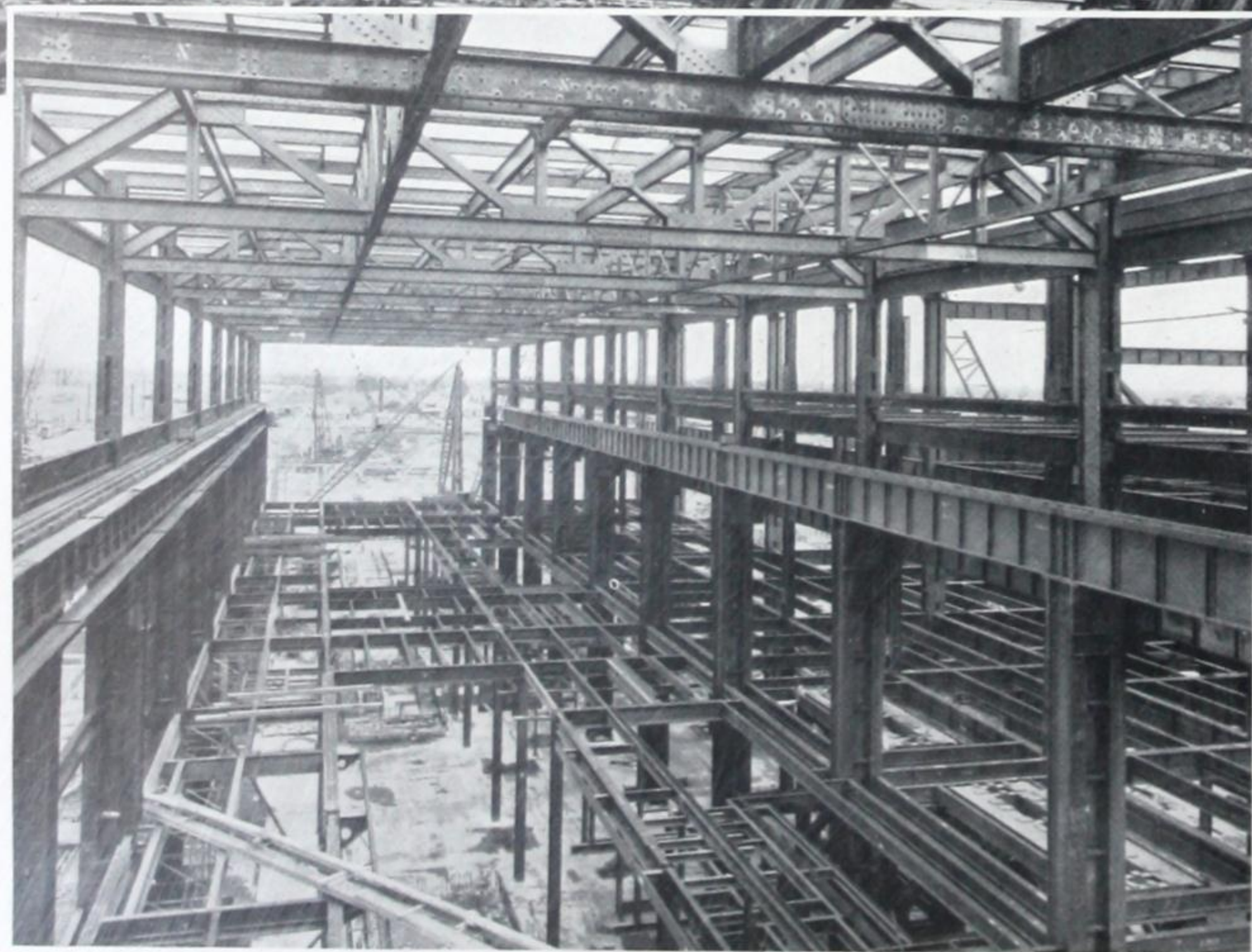
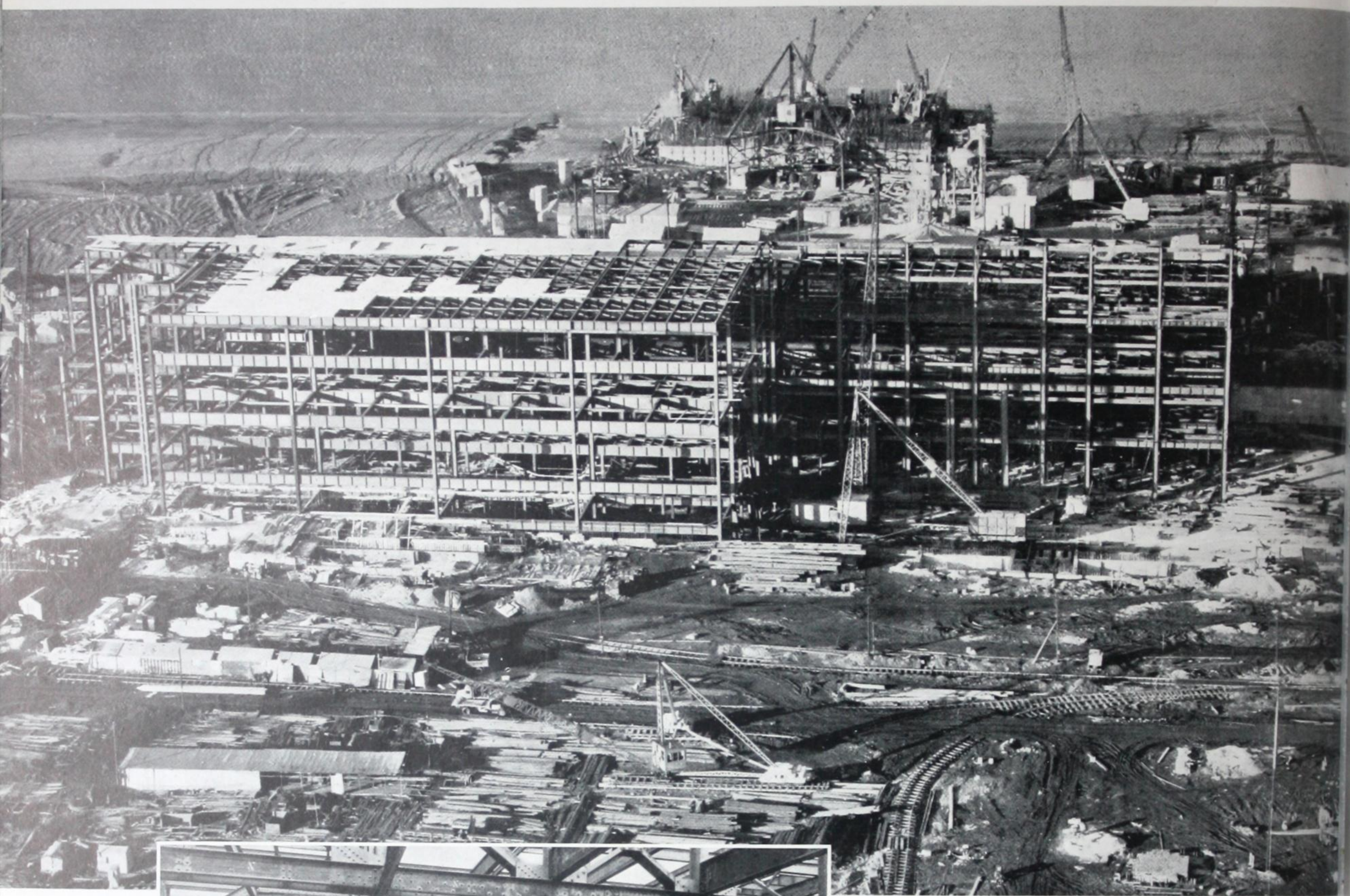
86. ELECTRICITY POWER STATION—TREForest, SOUTH WALES
 For the former South Wales Electric Power Distribution Co., Ltd. Steelwork supplied and erected.



87. ELECTRICITY POWER STATION—NEWPORT, MON., ENGLAND
steelwork supplied and erected.

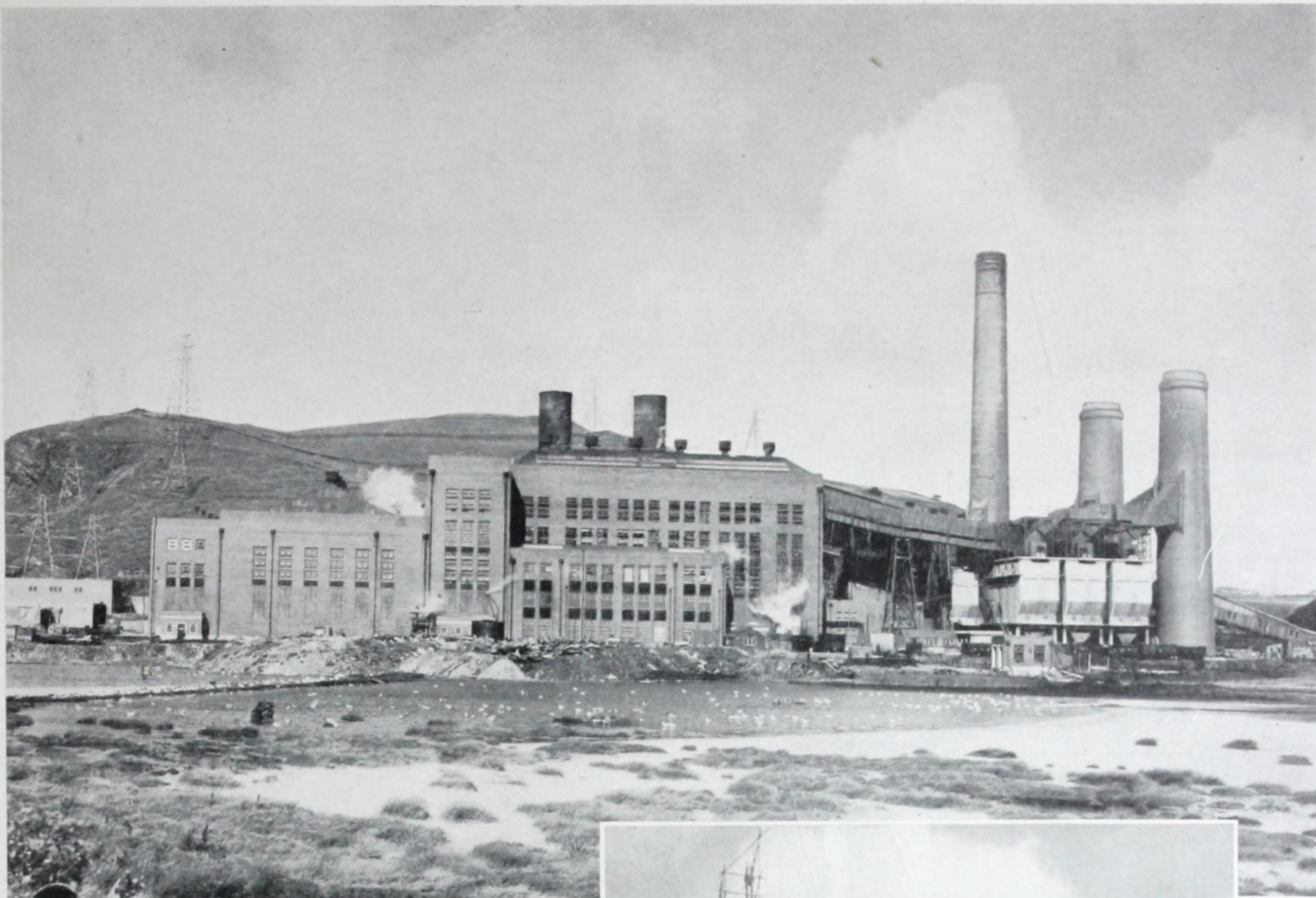


88. ELECTRICITY POWER STATION—BRIMSDOWN, LONDON
For the former North Metropolitan Power Co., of London.

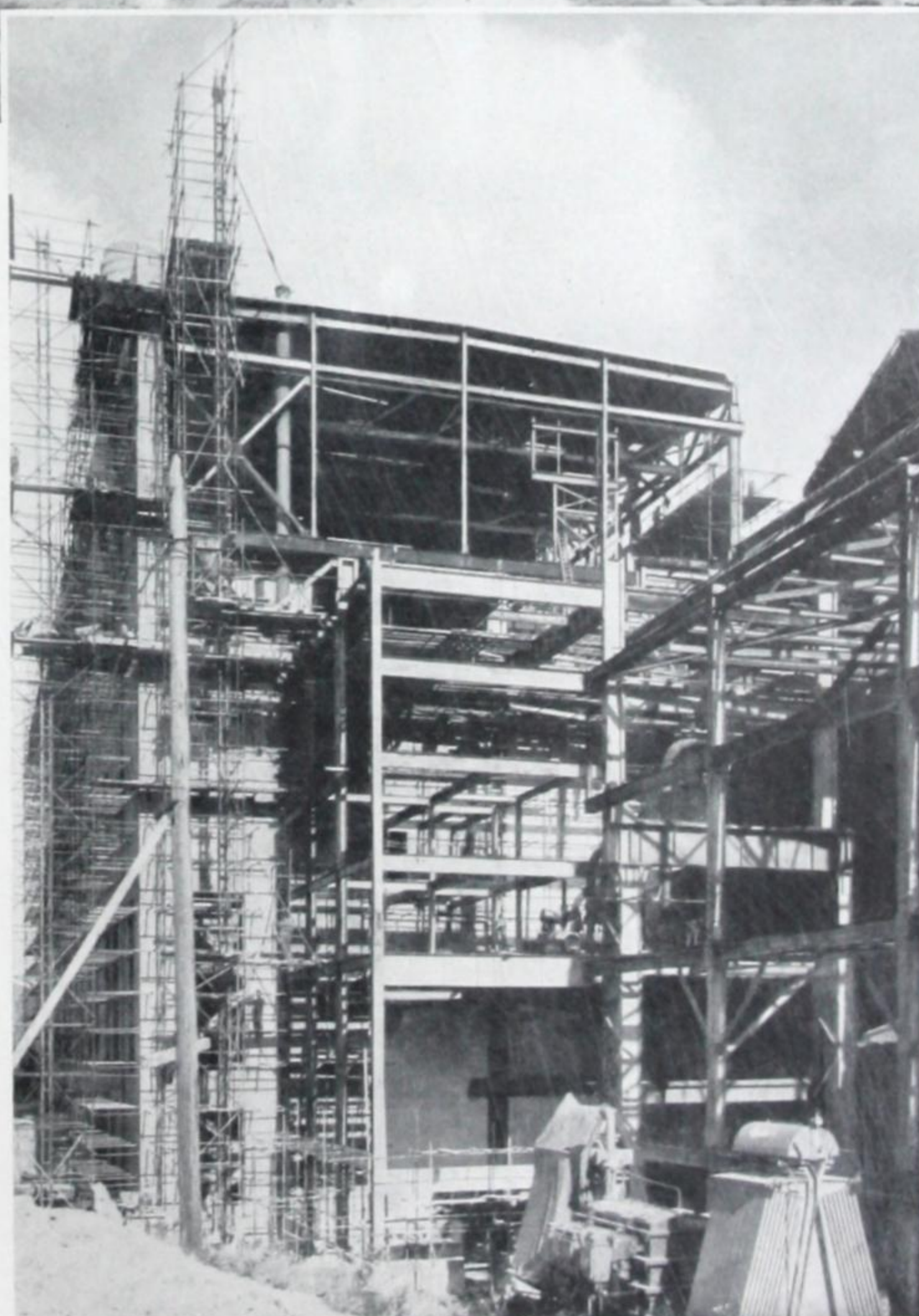


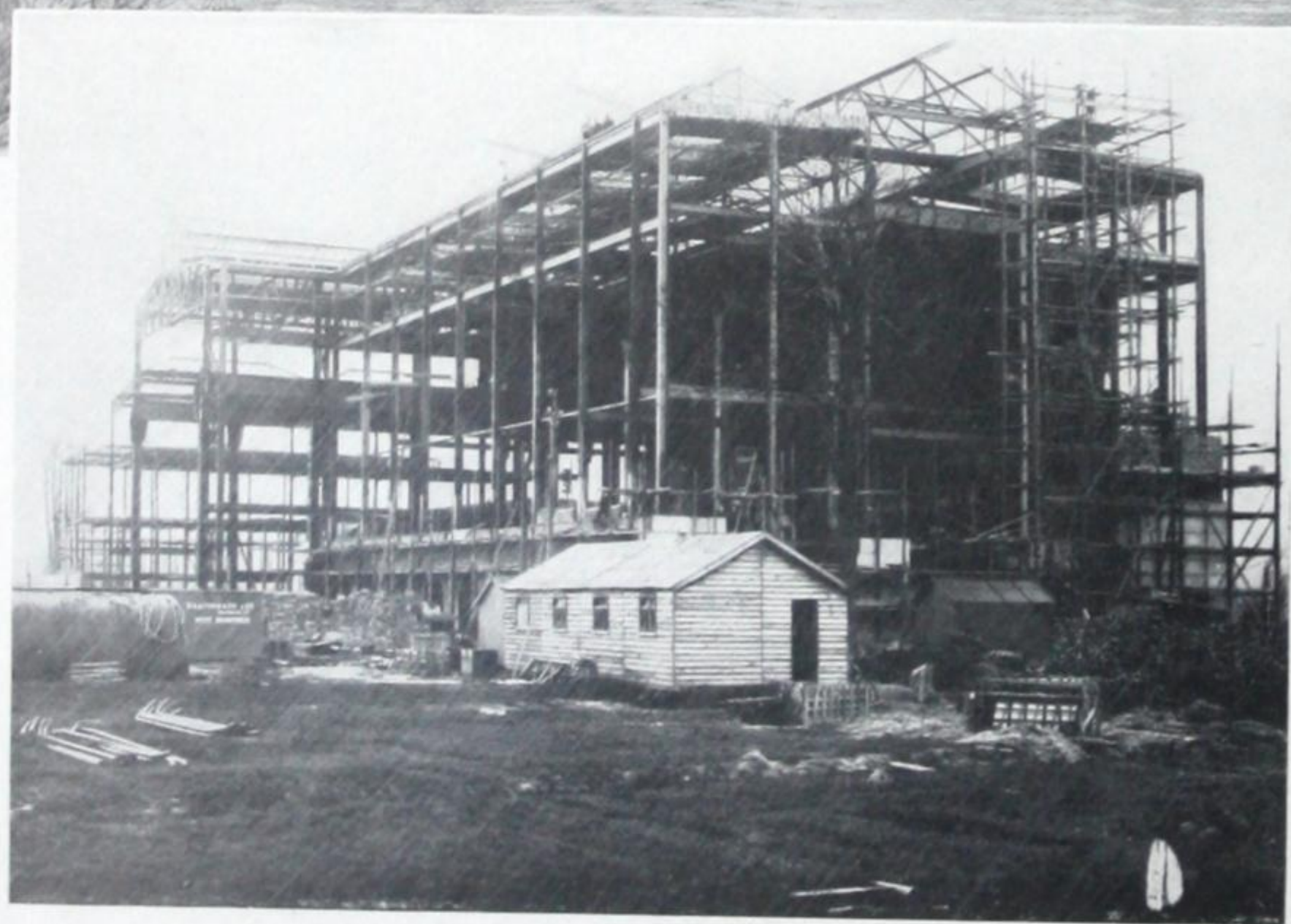
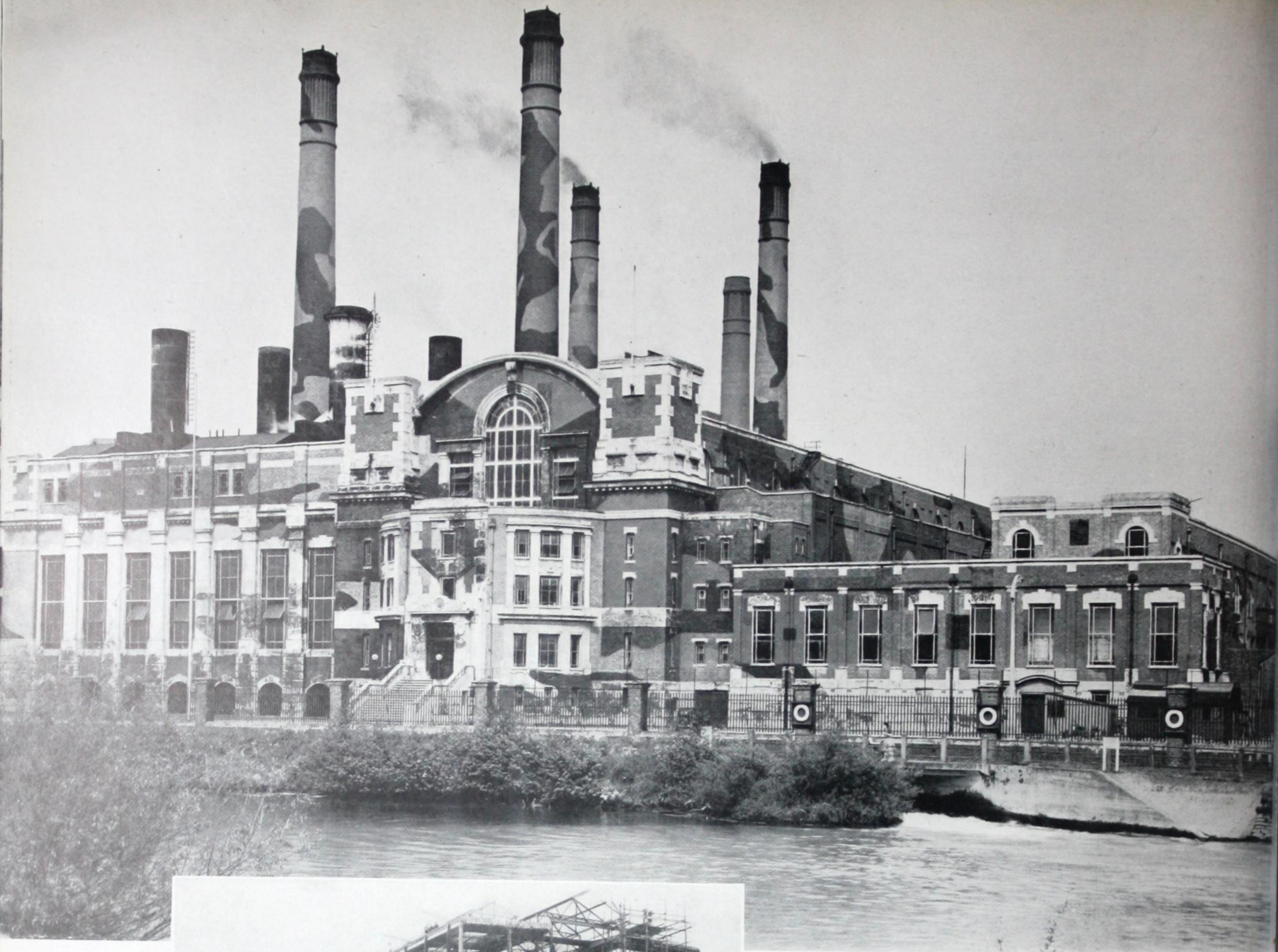
89 ELECTRICITY POWER STATION—
USKMOUTH, MON., ENGLAND
During construction.
17,000 tons of steelwork to be supplied and erected.

90. ELECTRICITY POWER STATION—USKMOUTH
Detail of structural steelwork.



91. ELECTRICITY POWER STATION—SOUTH WALES
 For the Corporation of Swansea.
 8,000 tons of steelwork supplied and erected.

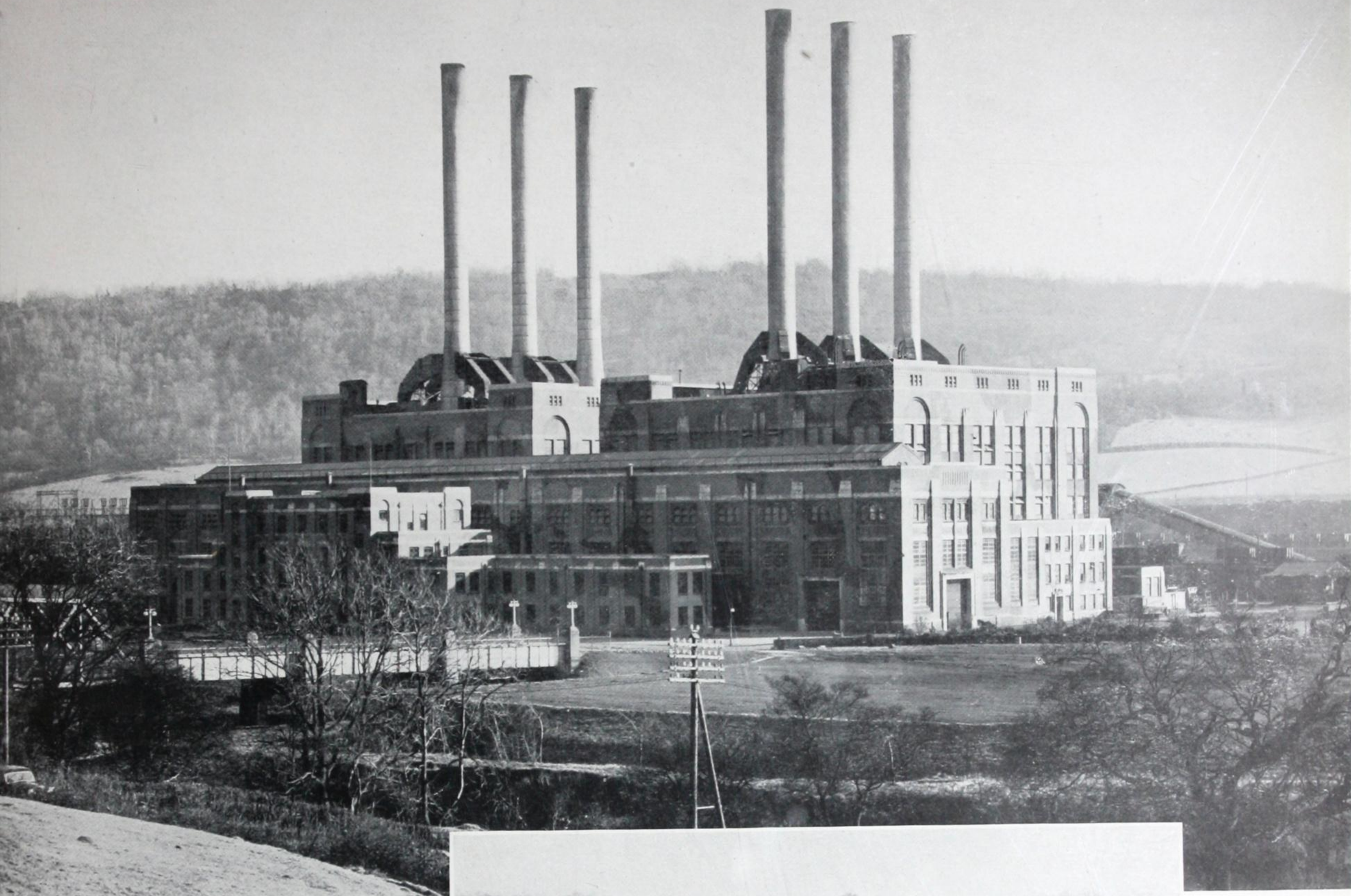




92. ELECTRICITY POWER STATION—
STOURPORT, ENGLAND

For the former Shropshire, Worcestershire
and Staffordshire Electric Supply Co.
Steelwork supplied and erected.

93. STOURPORT POWER STATION
During construction.



94. ELECTRICITY POWER STATION—
IRONBRIDGE, ENGLAND

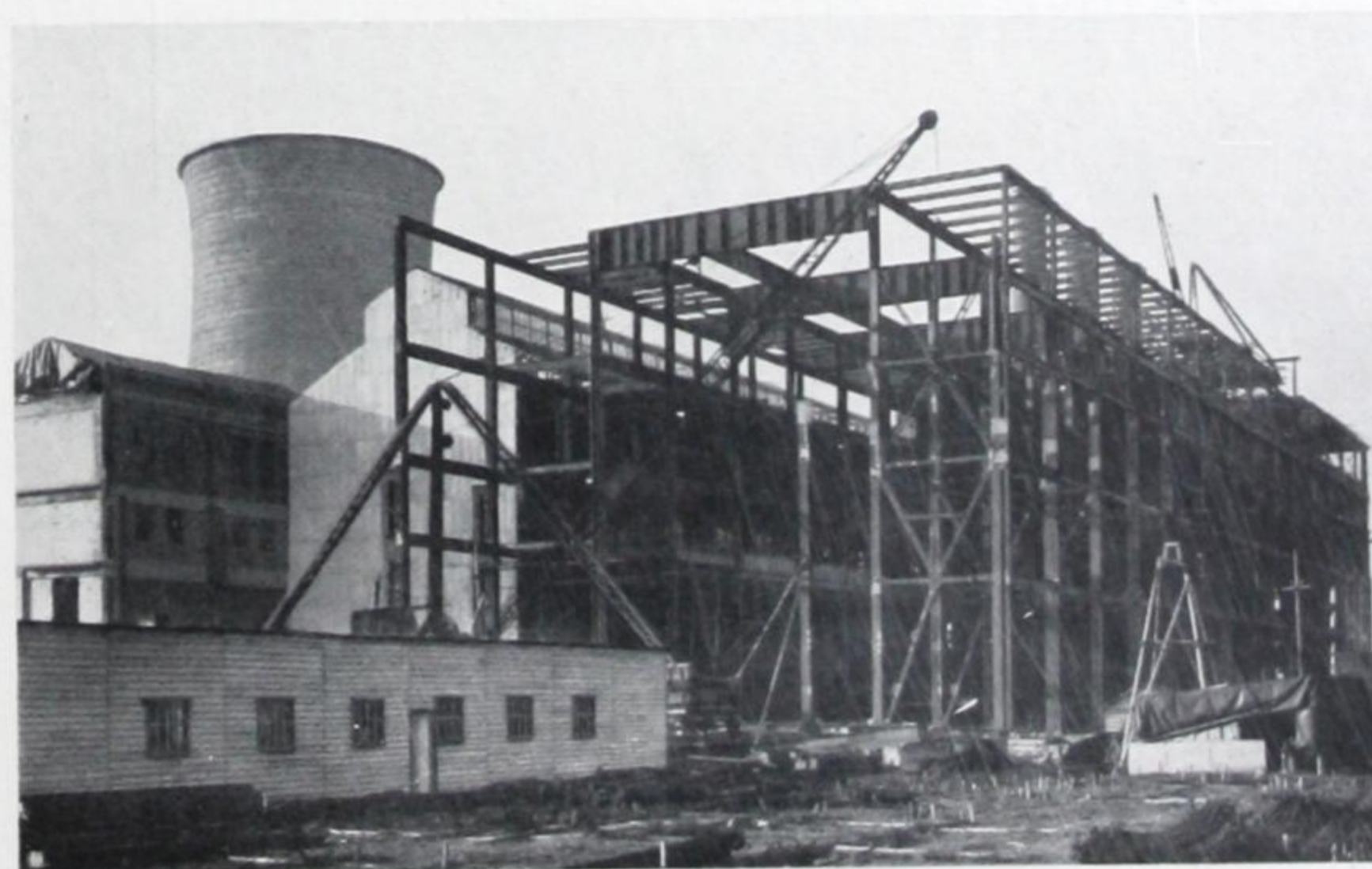
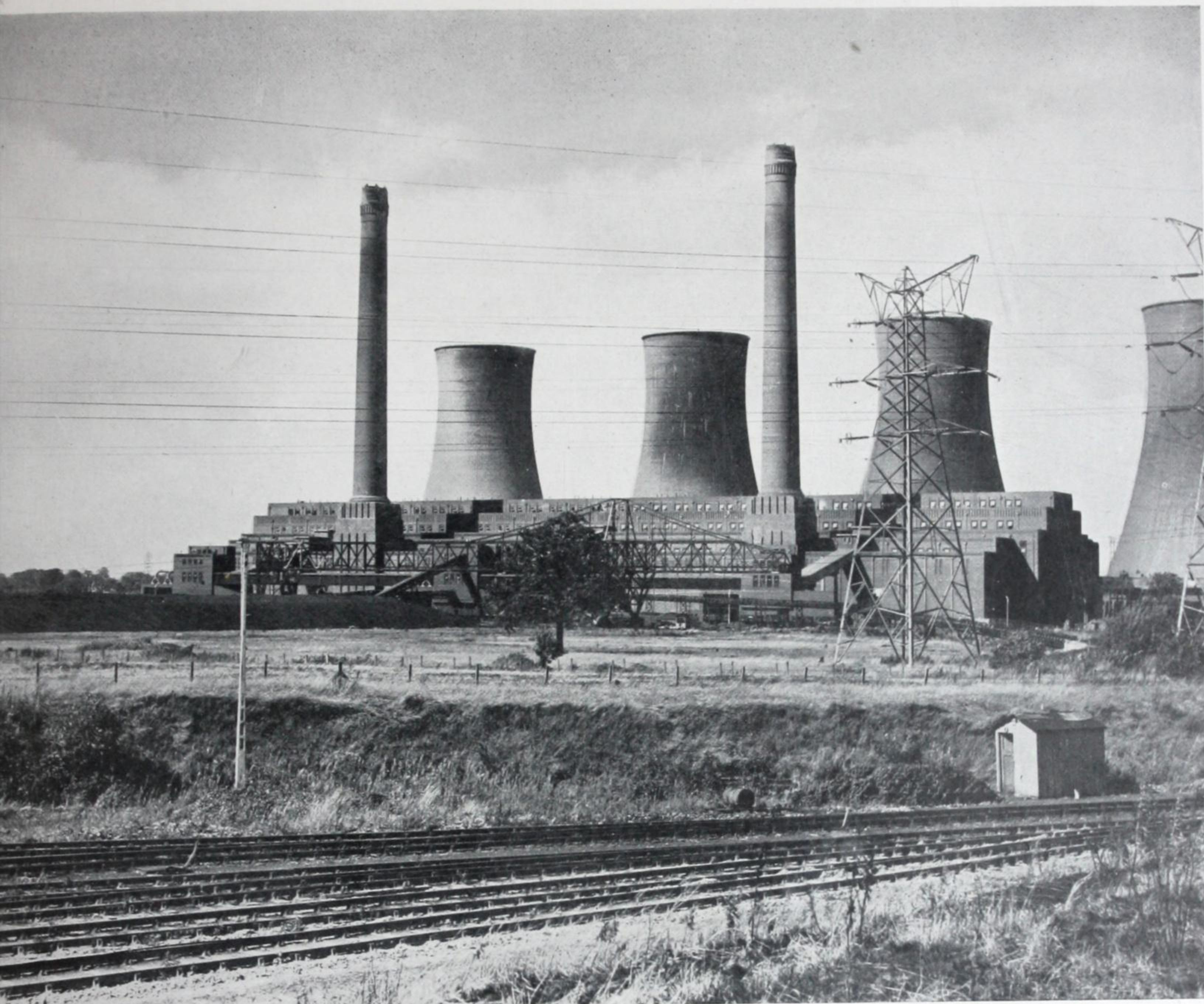
For the former Midlands Joint Electricity Authority.
6,000 tons of steelwork supplied and erected.



95. BRIDGE OVER RIVER SEVERN ON
APPROACH ROAD TO THE POWER STATION



96. ELECTRICITY POWER STATIONS A AND B—HAMS HALL, ENGLAND
For Birmingham Corporation. 8,000 tons of steelwork supplied and erected for Station A.



97. HAMS HALL POWER STATION A
During construction



98. STEEL MAKING PLANT—KARABUK, TURKEY

One million cubic yards of soil removed, 11 miles of railway sidings laid and many thousands of tons of steelwork supplied and erected.



99. STEEL MAKING PLANT, KARABUK
Native labourers at work.



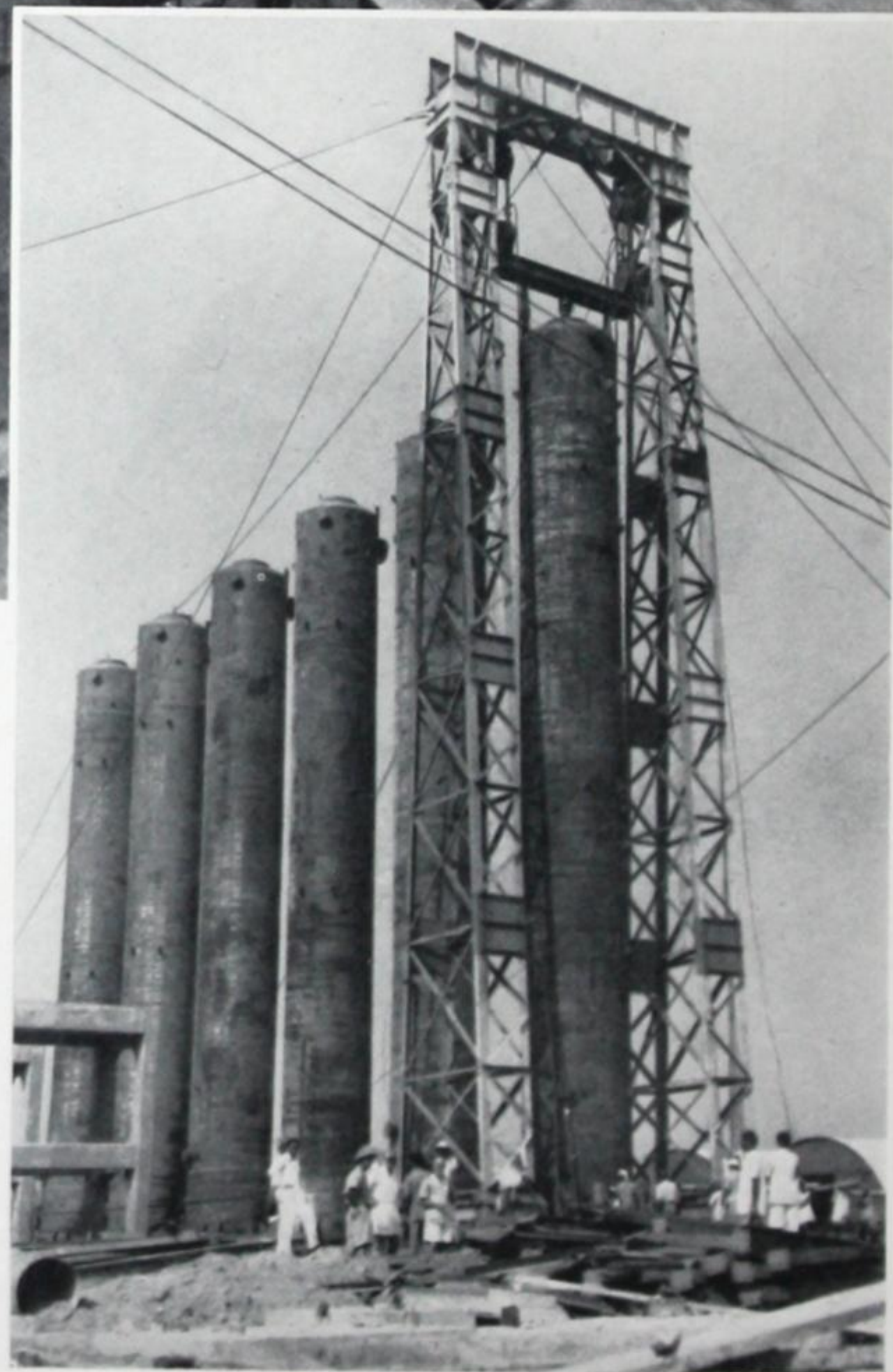
100. MOUNT ISA MINES—QUEENSLAND, AUSTRALIA
4,000 tons of steelwork supplied and erected.



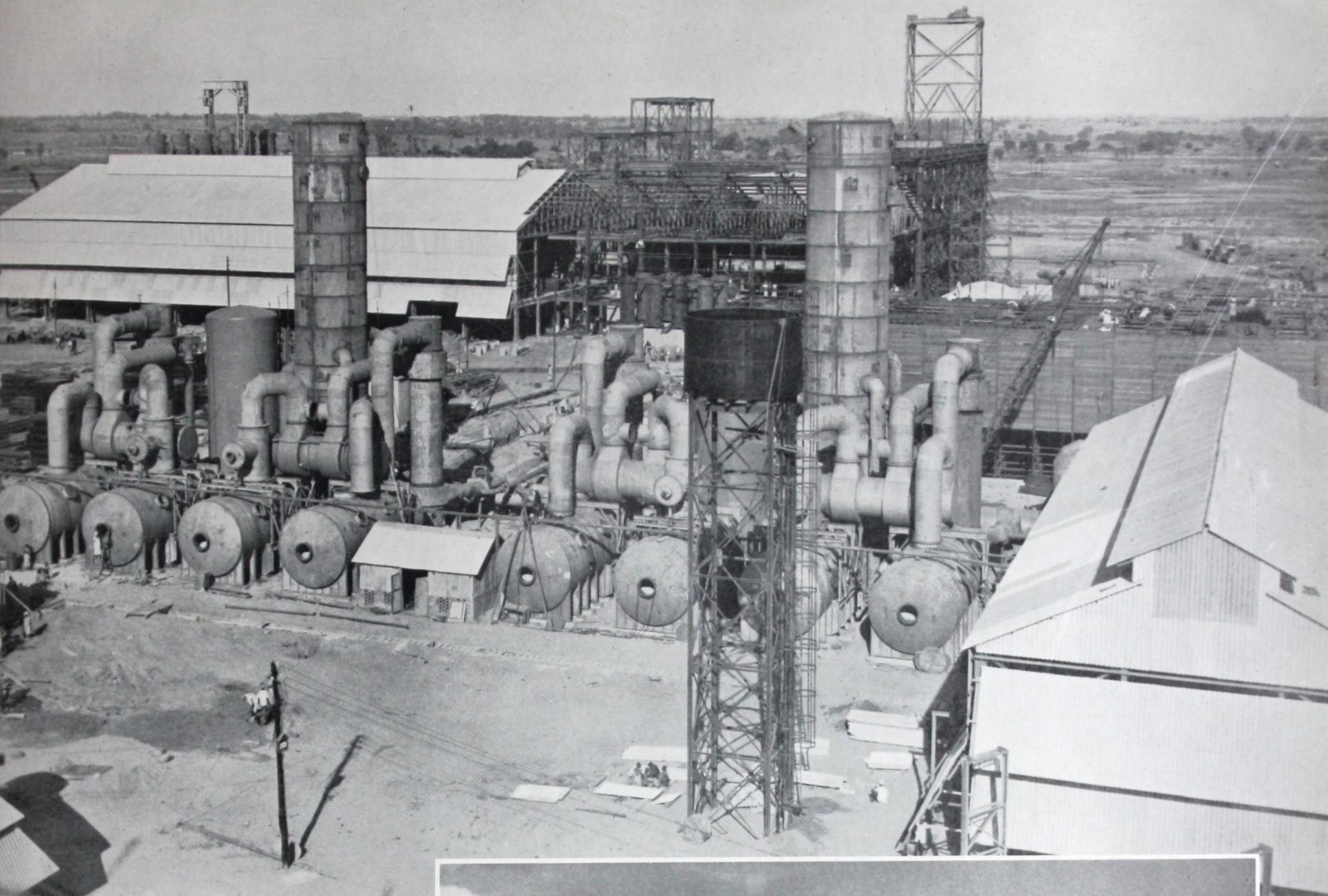
101. Mount Isa Mine when first discovered.



102. FERTILISER FACTORY—SINDRI, INDIA
 Gas Holder during erection.
 All Steelwork supplied and erected by the
 Braithwaite, Burn & Jessop Construction Co. Ltd.



103. FERTILISER FACTORY—SINDRI
 Scrubbers.



104. FERTILISER FACTORY—SINDRI
Gas conversion section.

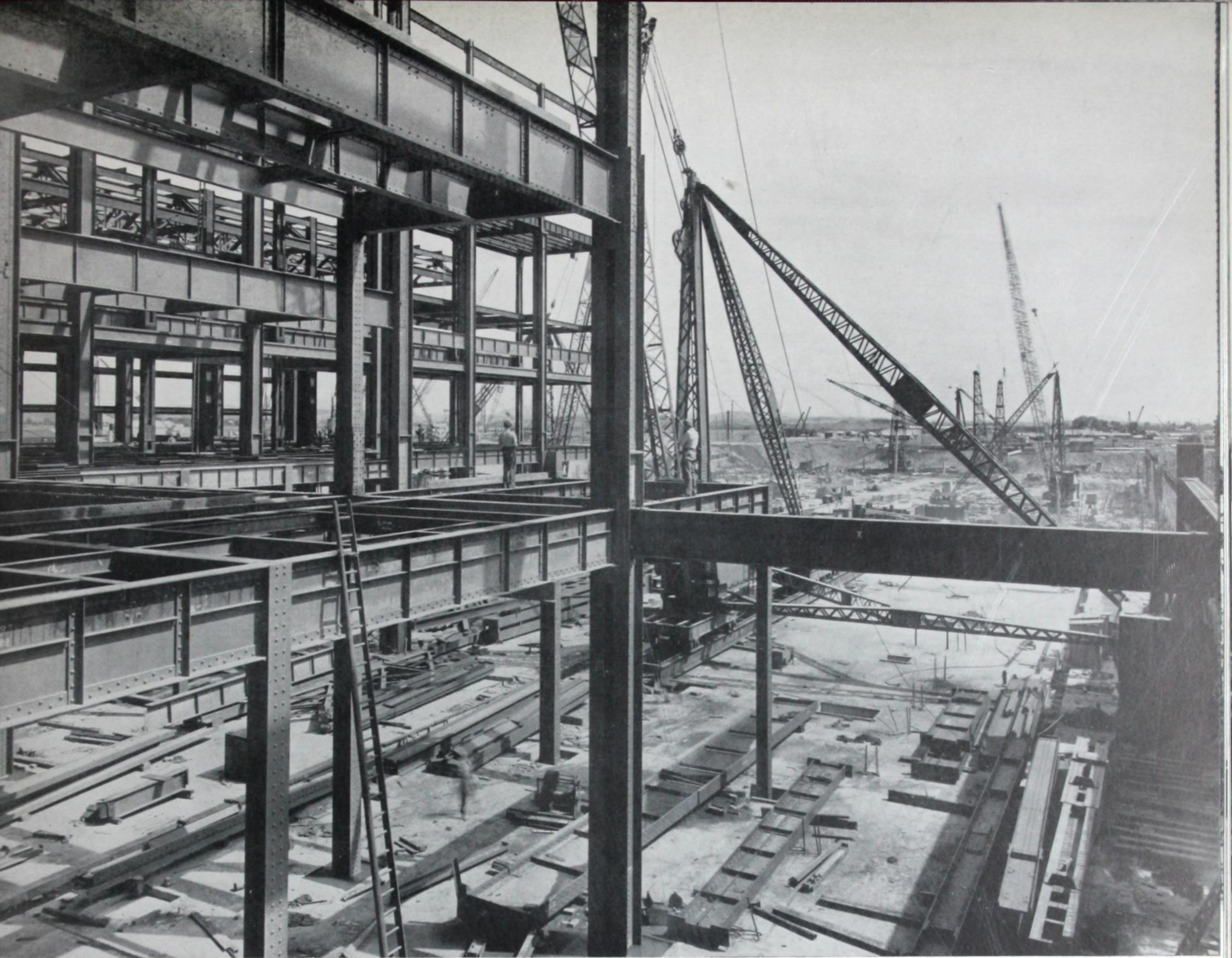


105. FERTILISER FACTORY—SINDRI,
Ammonia plant building during construction.

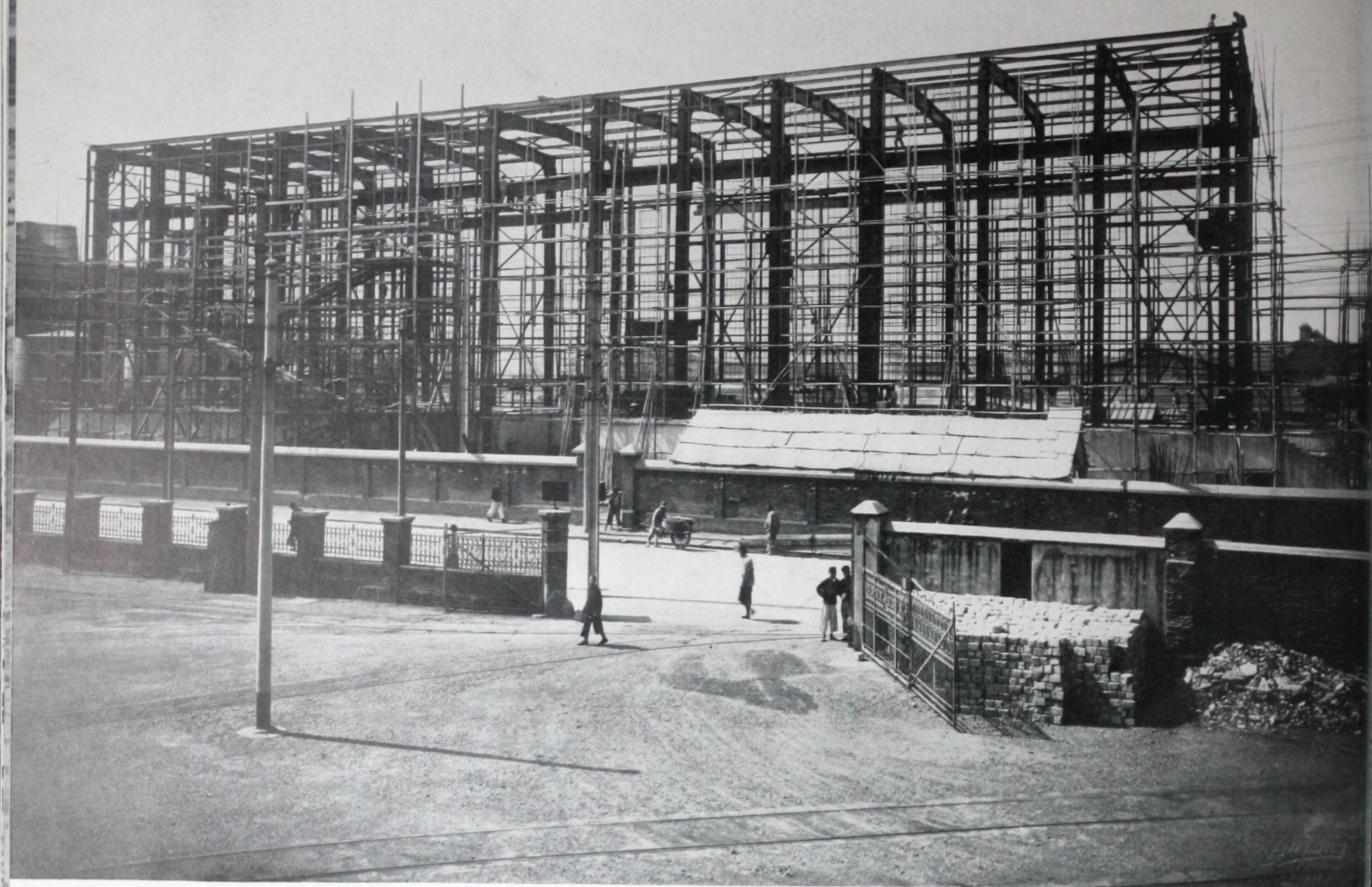
[BLANK PAGE]



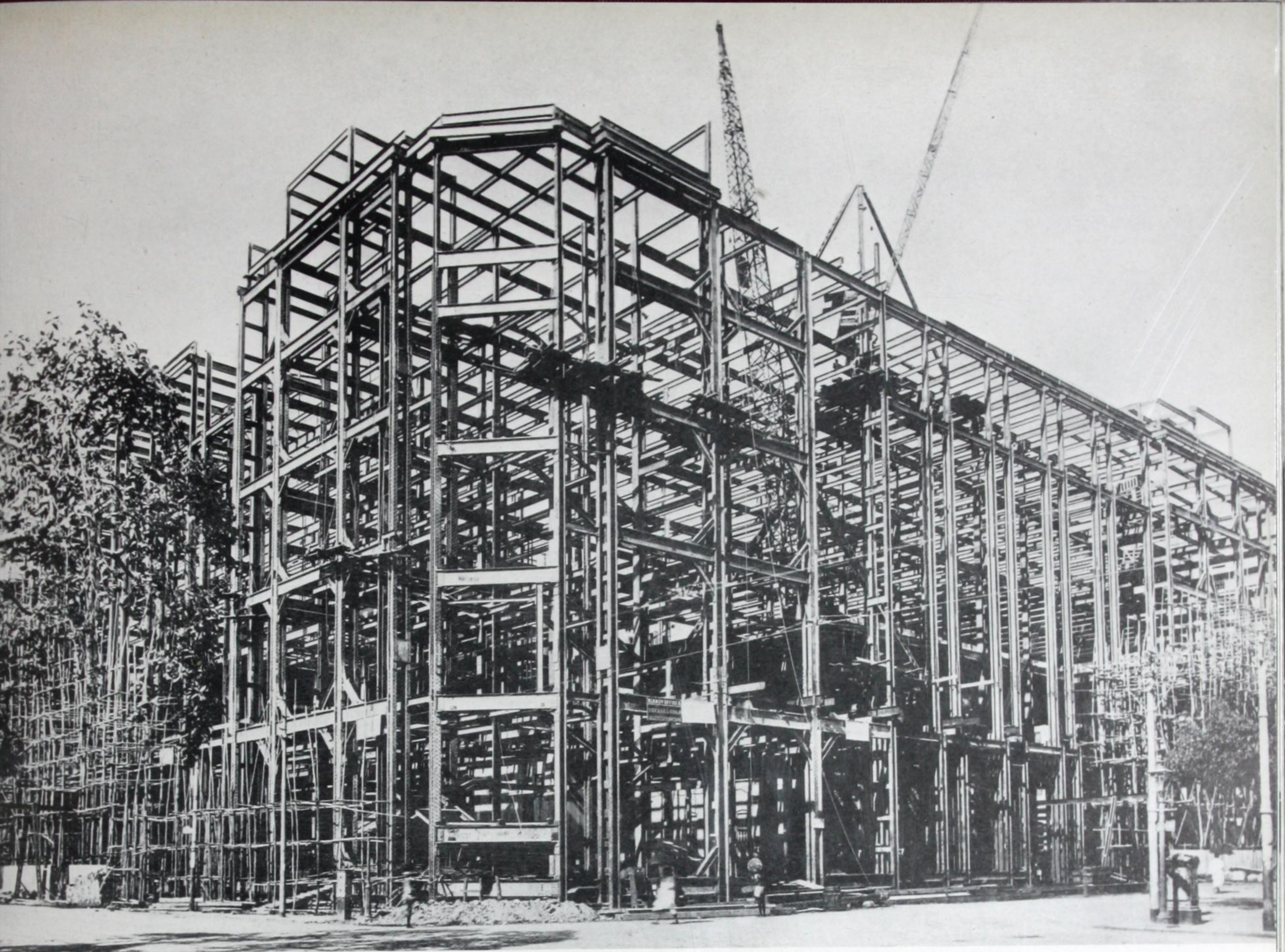
CCA



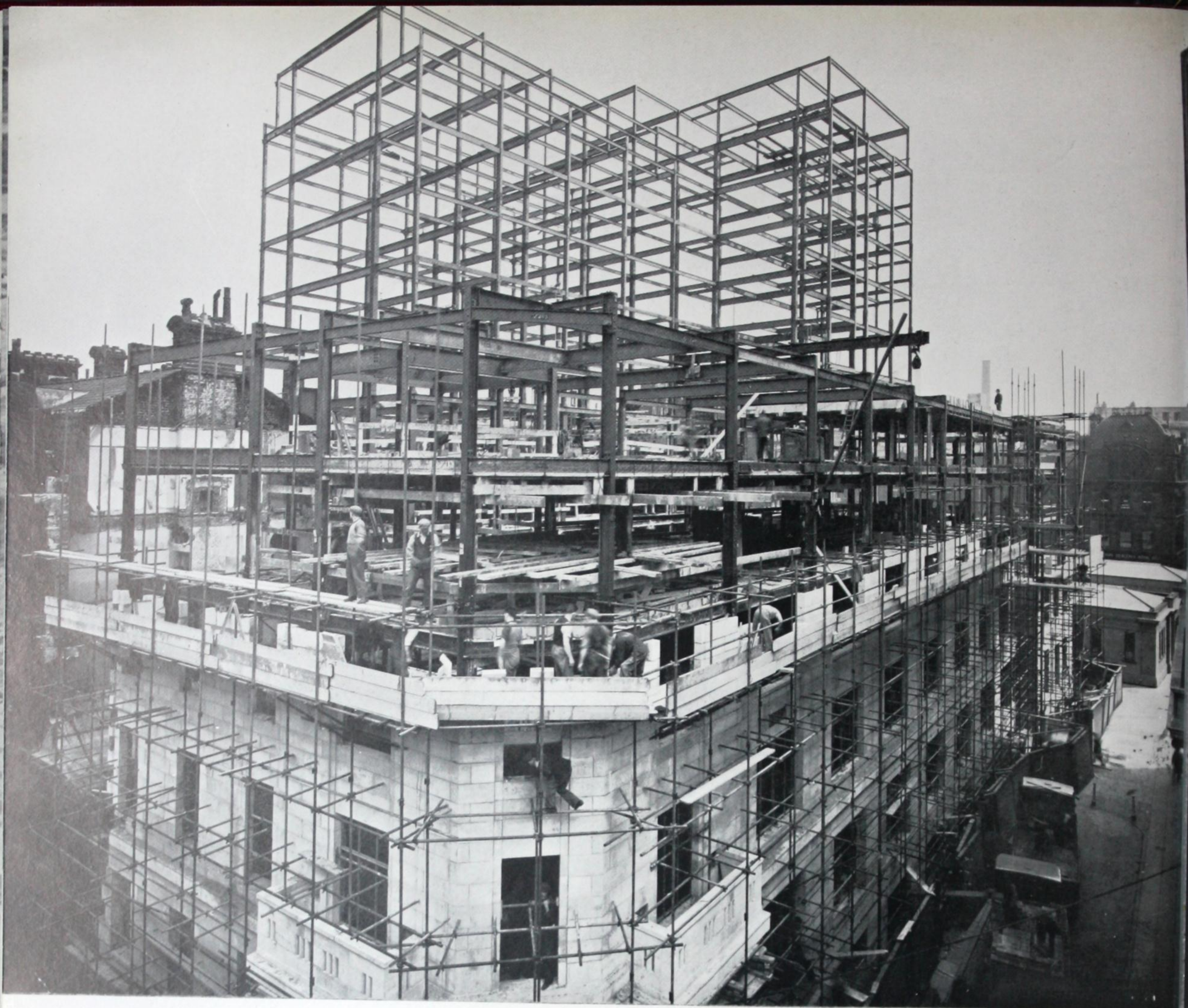
STEEL FRAMED STRUCTURES



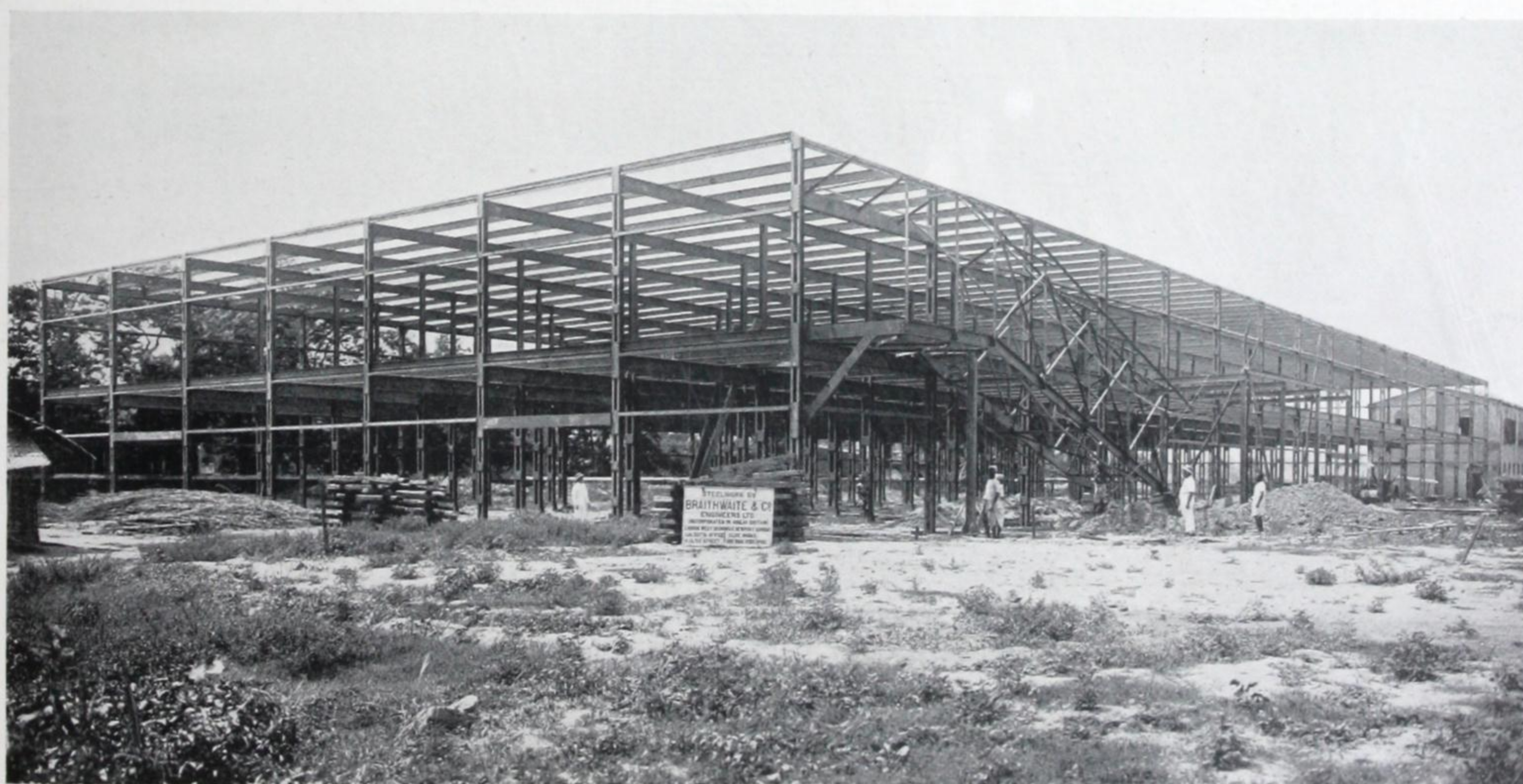
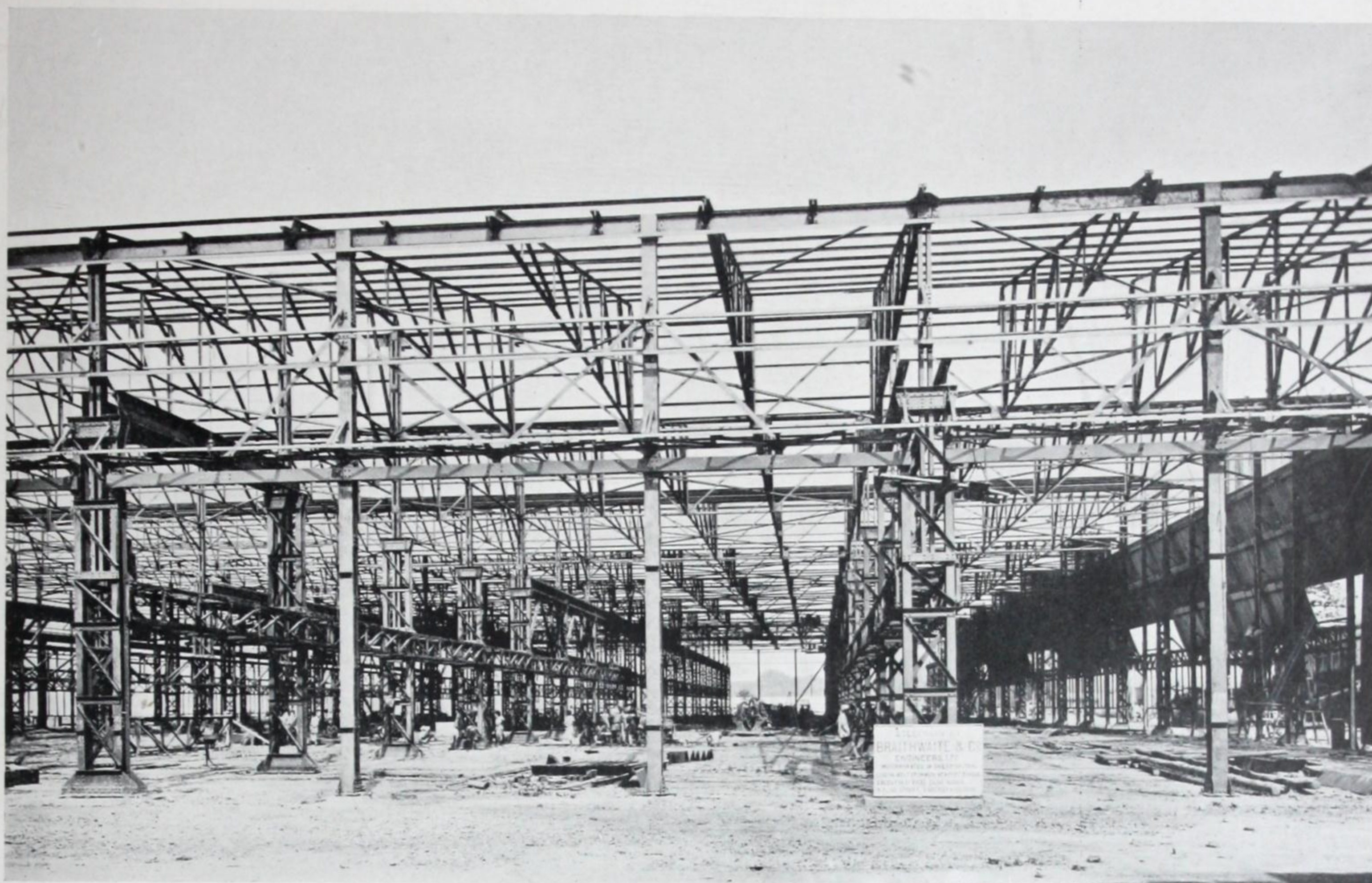
106. STEEL FRAMED BUILDING—SHANGHAI
For the Compagnie Française de Tramways et d'Eclairage Electrique de Shanghai.



107. STEEL FRAMED OFFICE BUILDING—CALCUTTA, INDIA



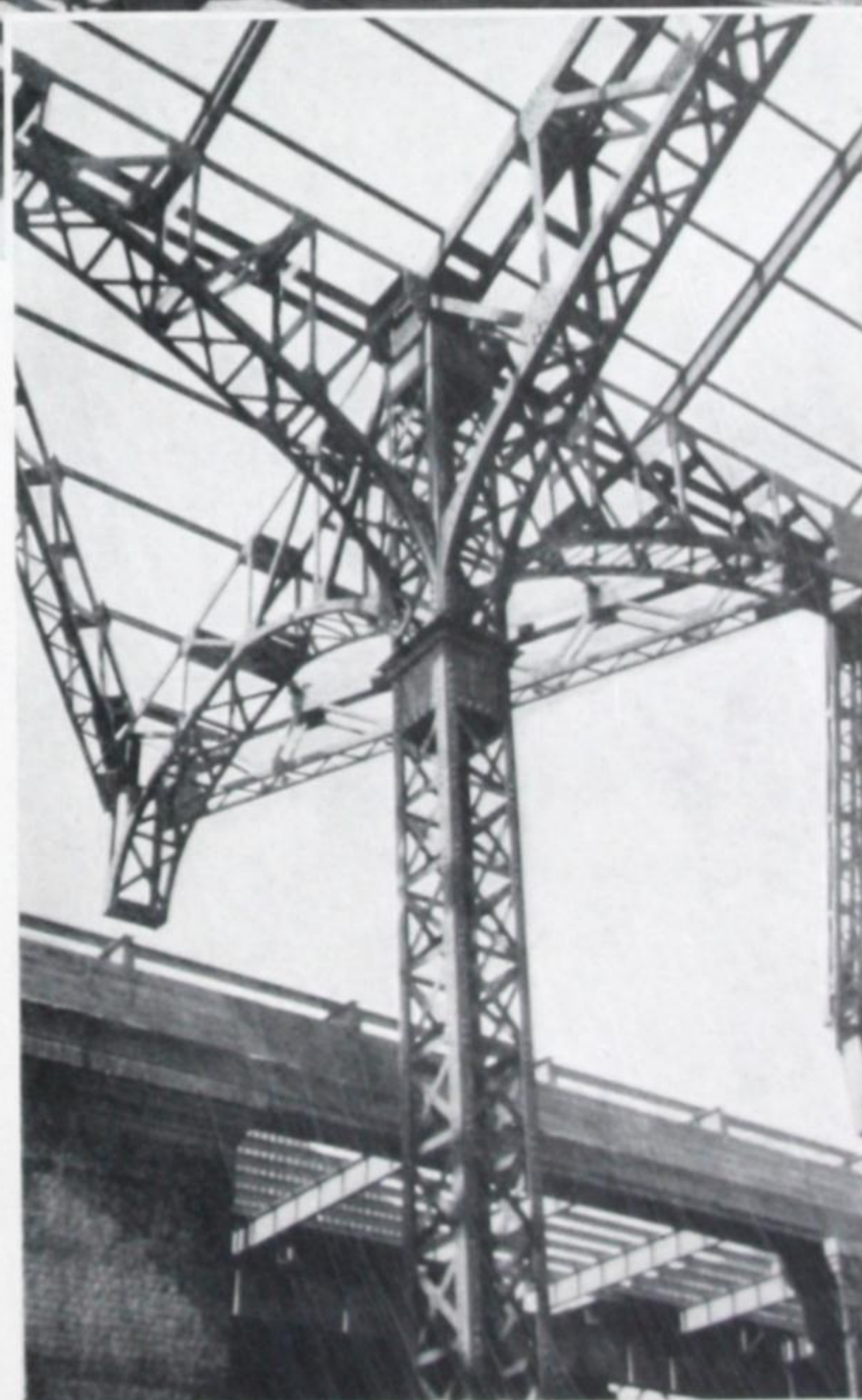
108. THE EXCHANGE BUILDING—LIVERPOOL, ENGLAND
4,000 tons of steelwork supplied and erected.



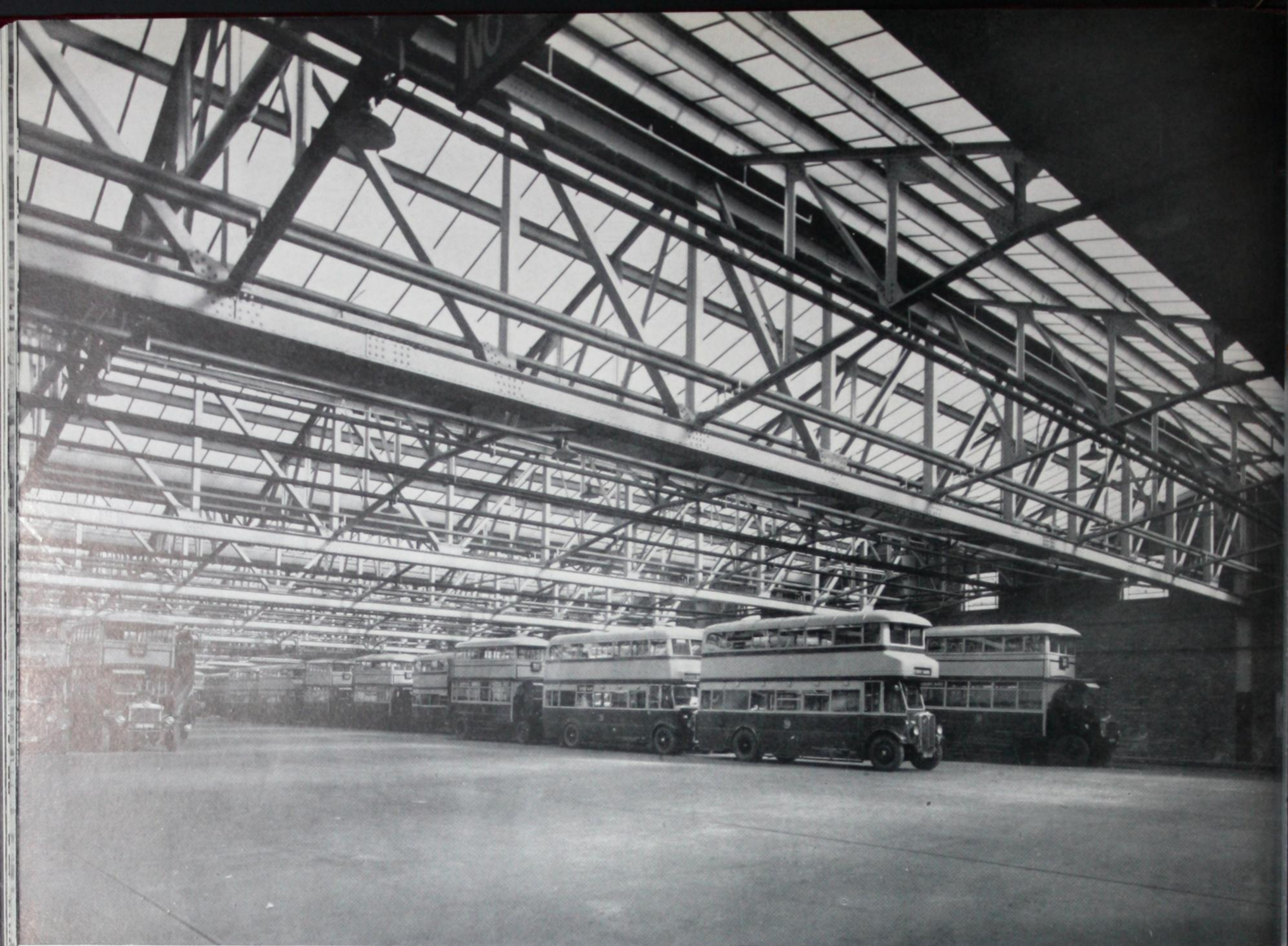
109. STEEL FRAMED FACTORY BUILDINGS—CALCUTTA, INDIA



110. ROOF OVER EXHIBITION HALL, EARLS COURT, LONDON, ENGLAND
165 feet above floor level, with a clear span of 250 feet.



III. BOMBAY CENTRAL STATION—INDIA
For the B.B. & C.I. Railway.



112. OMNIBUS GARAGE—PERRY BAR, BIRMINGHAM, ENGLAND



113. OMNIBUS GARAGE—NEWPORT, MON., ENGLAND



114. AEROPLANE HANGAR—PORTSMOUTH, ENGLAND



115. RAILWAY STATION—NEWPORT, MON.



Top:

116. STEEL FRAMED BUILDING—BIRMINGHAM, ENGLAND
The New Stock Exchange.

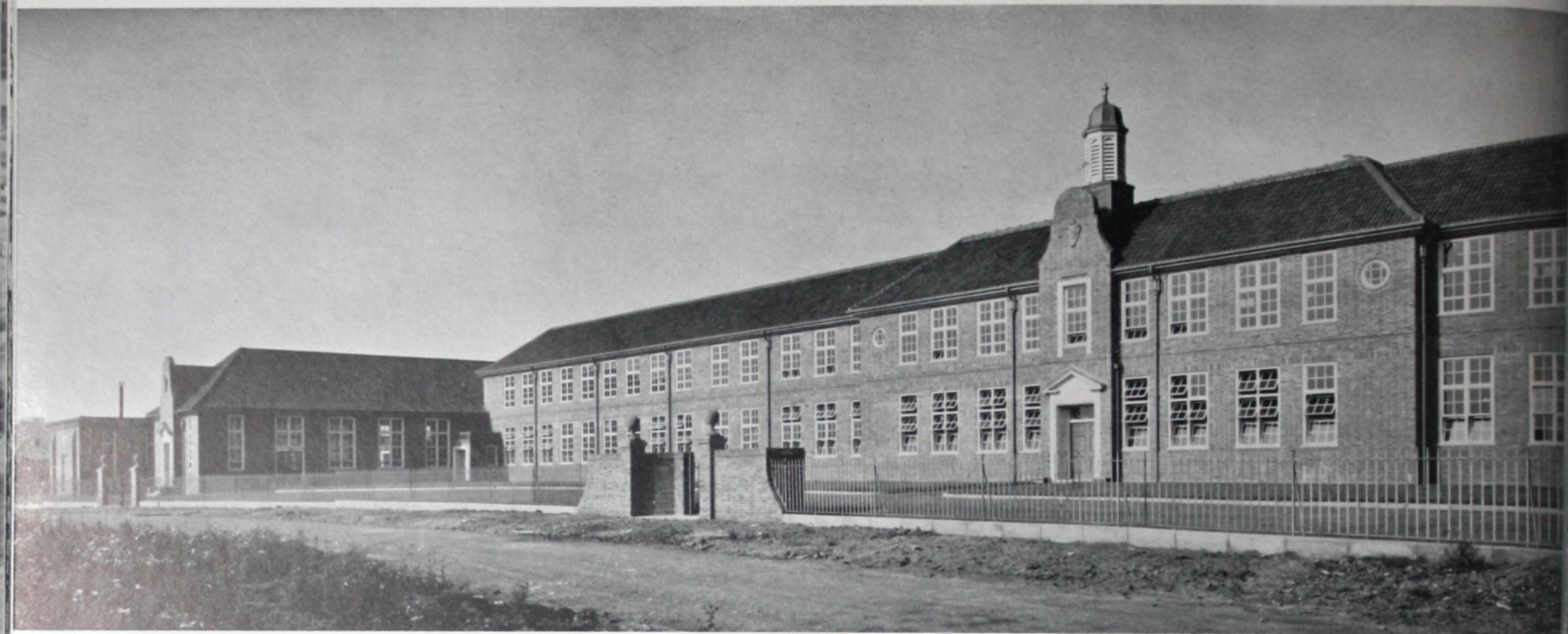
Below:

117. STEEL FRAMED BUILDING—BIRMINGHAM, ENGLAND
For the Prudential Assurance Company, Ltd.

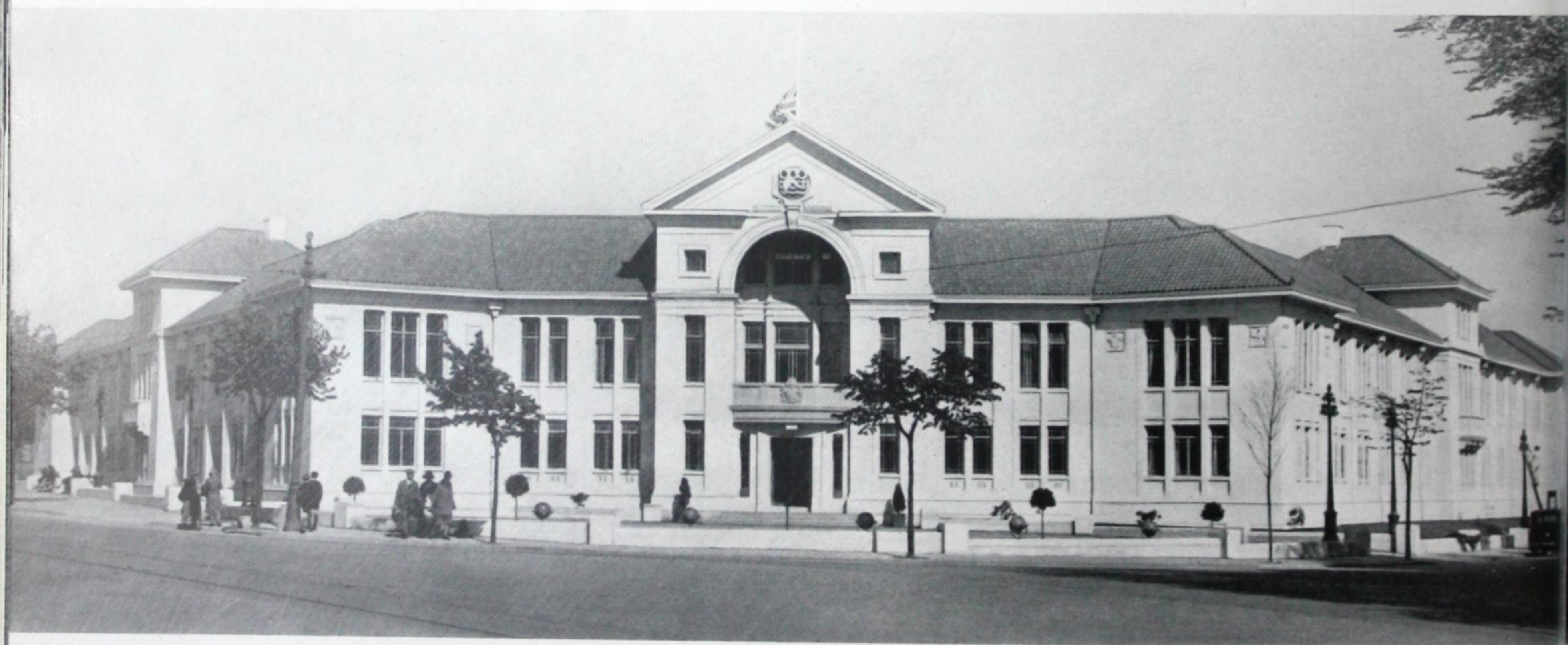




118. STEEL FRAMED BUILDING—SLOANE STREET, LONDON, ENGLAND
Flats and shop premises.



119. STEEL FRAMED BUILDING—BIRMINGHAM, ENGLAND
School for the local Educational Authorities.

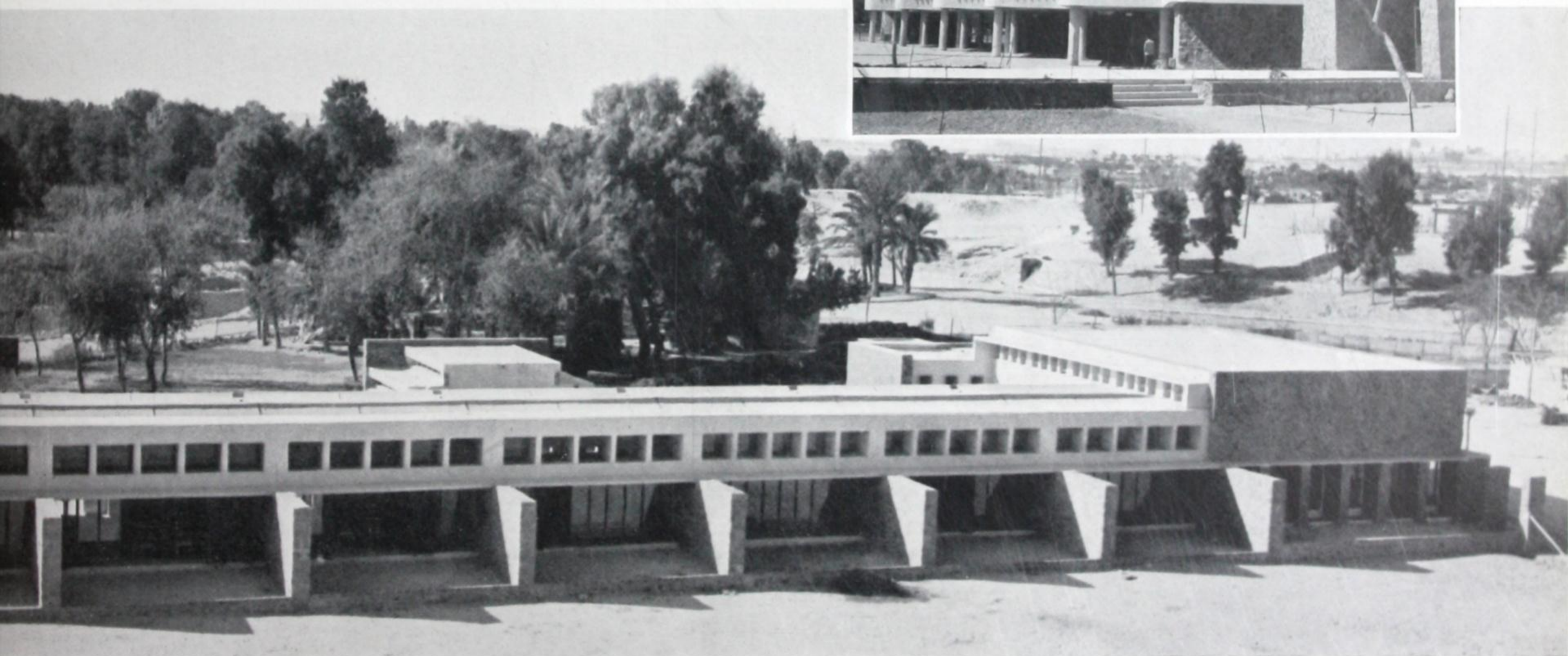


120. STEEL FRAMED BUILDING—DORSET, ENGLAND
Offices for the Municipality of Poole.

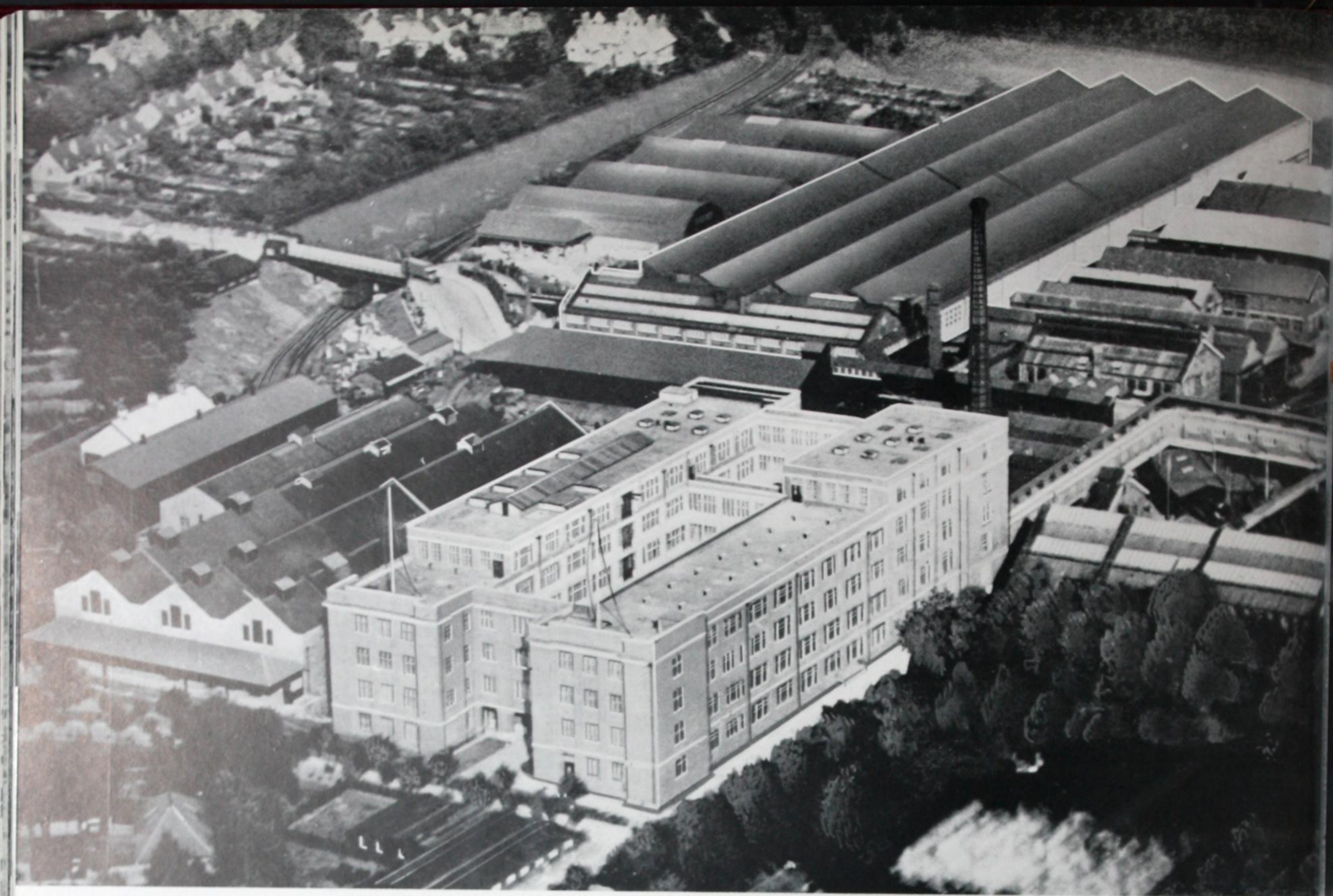


Main School Building—Dormitory Block, *top right.*

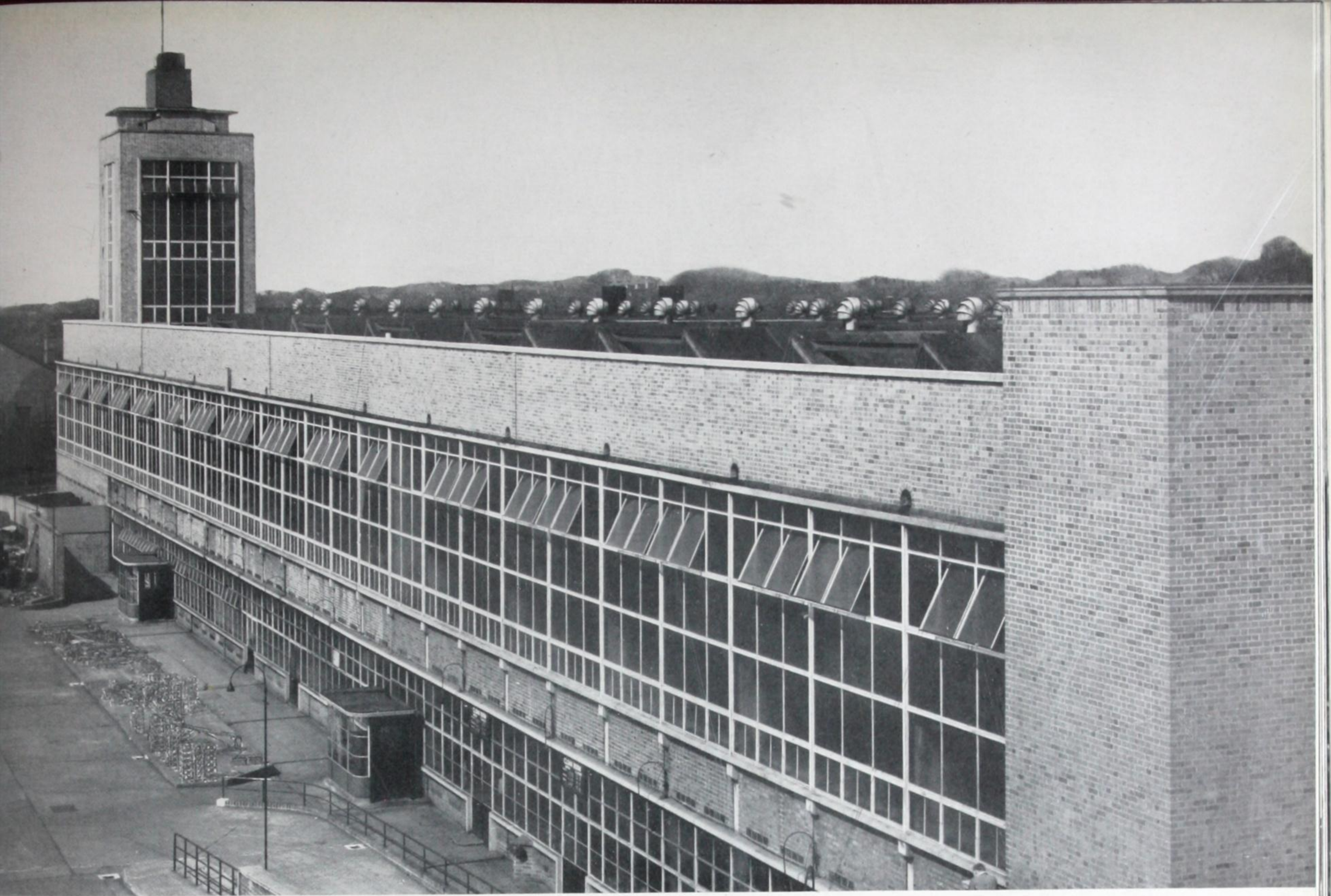
Below: The Junior School.



121. VICTORIA COLLEGE—CAIRO, EGYPT
In reinforced concrete.



122. STEEL FRAMED BUILDING—BIRMINGHAM, ENGLAND
Messrs. Cadbury Brothers Limited, Bournville.



123. STEEL FRAMED FACTORY BUILDING—WOLVERHAMPTON, ENGLAND
Henry Meadows, Ltd.



124. STEEL FRAMED OFFICE BUILDING—CALCUTTA, INDIA



125. STEEL FRAMED OFFICE BUILDING—CALCUTTA, INDIA



126. STEEL FRAMED OFFICE BUILDING—CALCUTTA, INDIA



127. CHOWBAYS BUILDING—CALCUTTA, INDIA



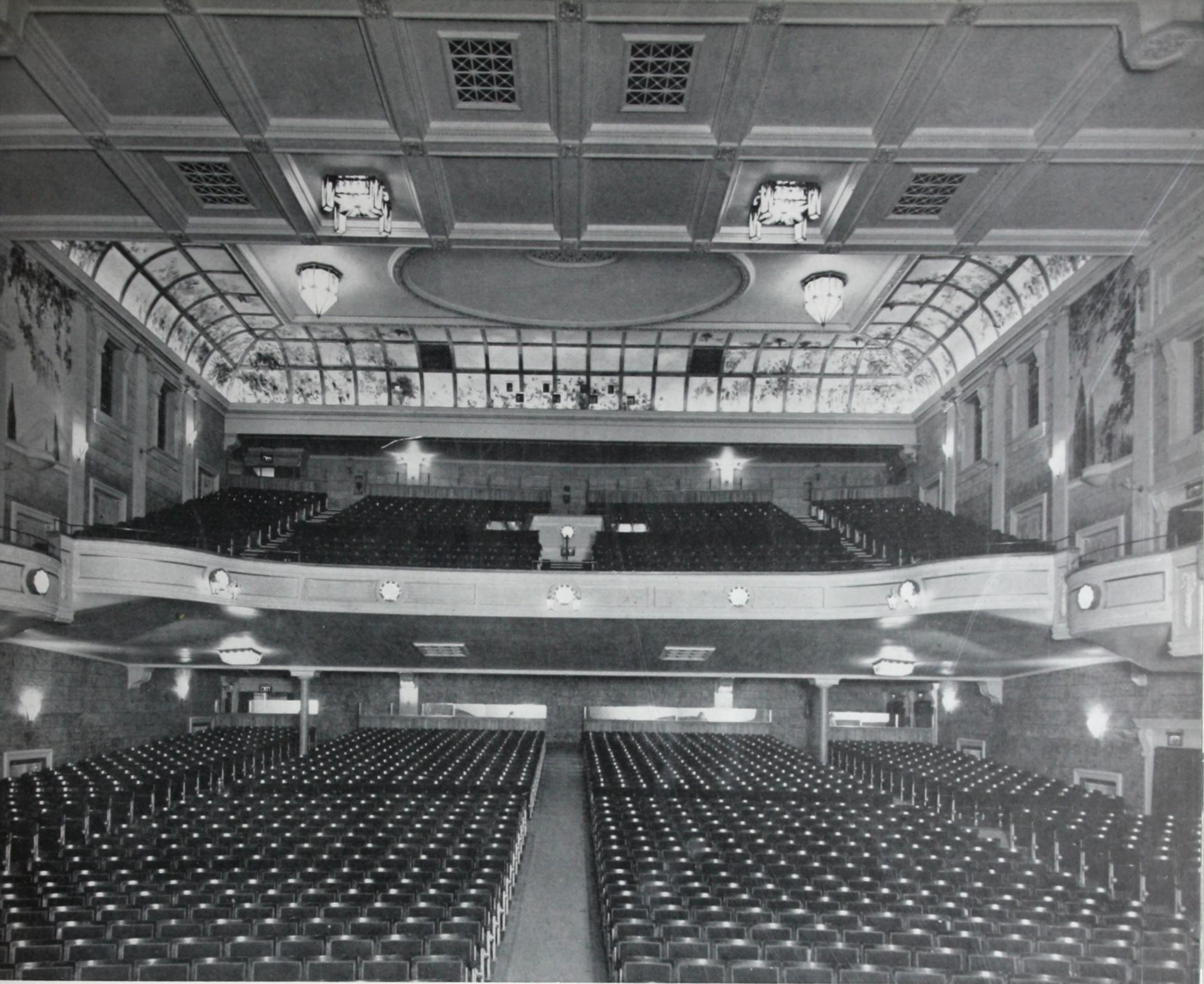
128. "THE STATESMAN" BUILDING—CALCUTTA, INDIA



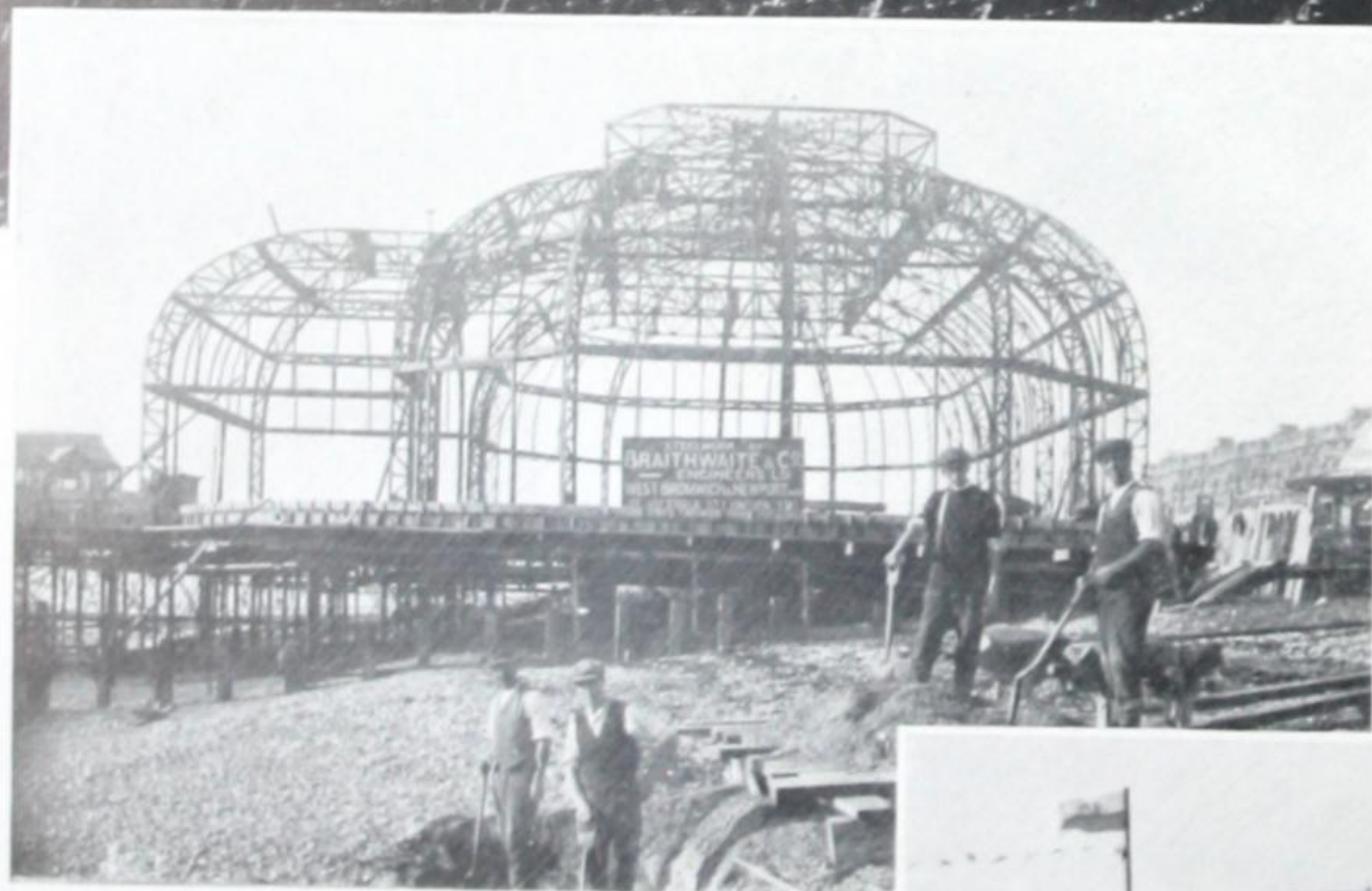
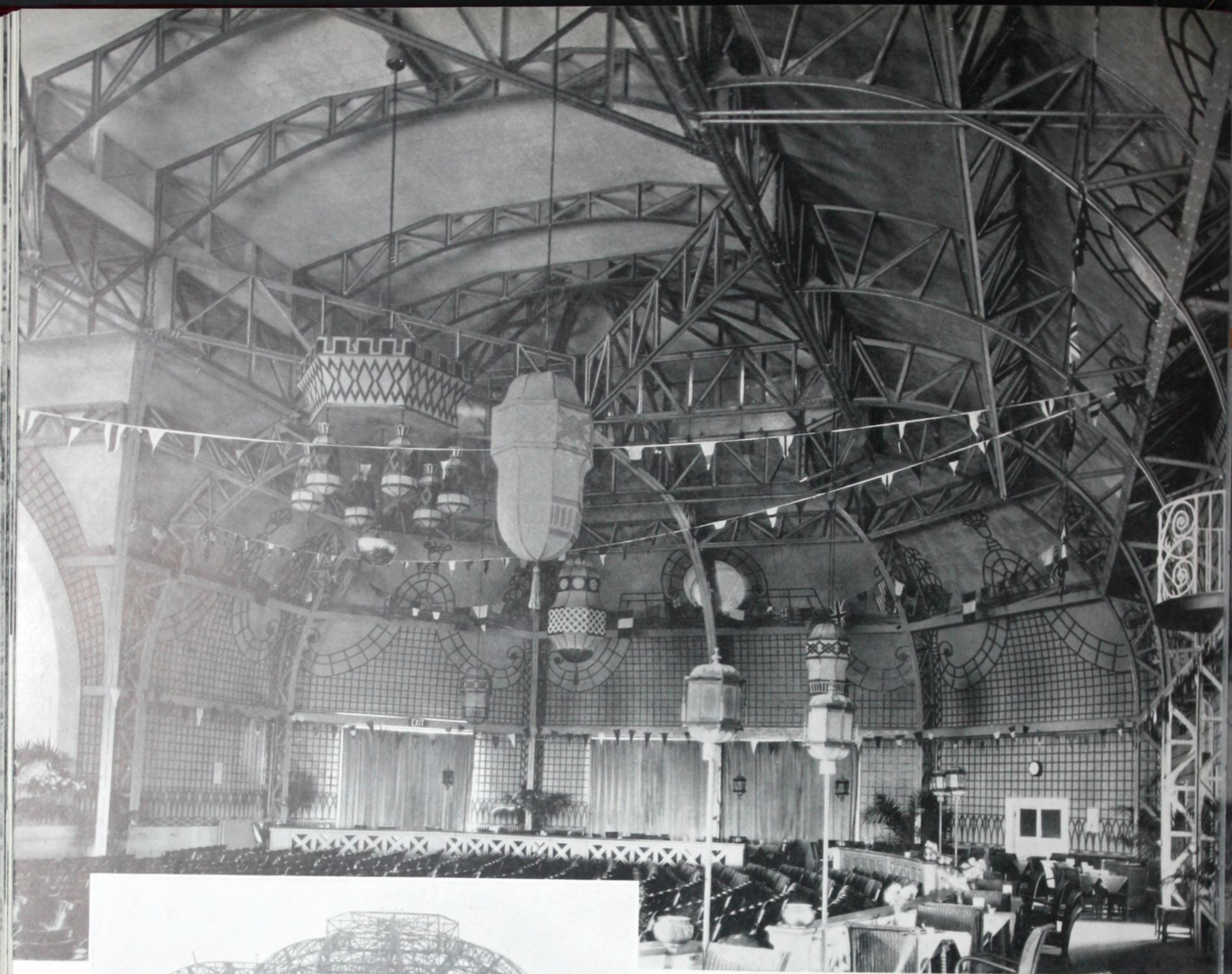
129. QUTB MINAR TEMPLE—BARODA, INDIA



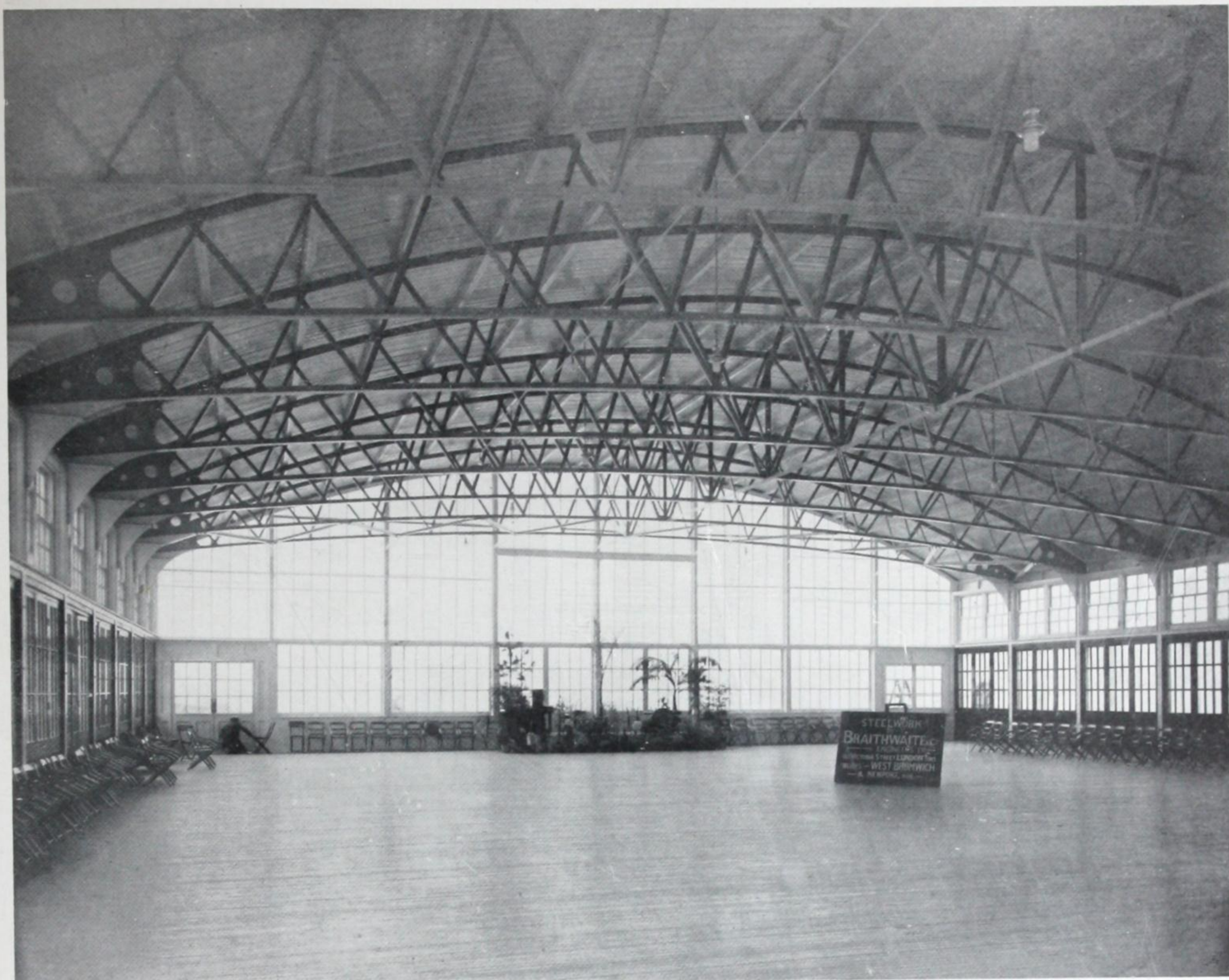
130. ADELPHI CINEMA—SLOUGH, ENGLAND



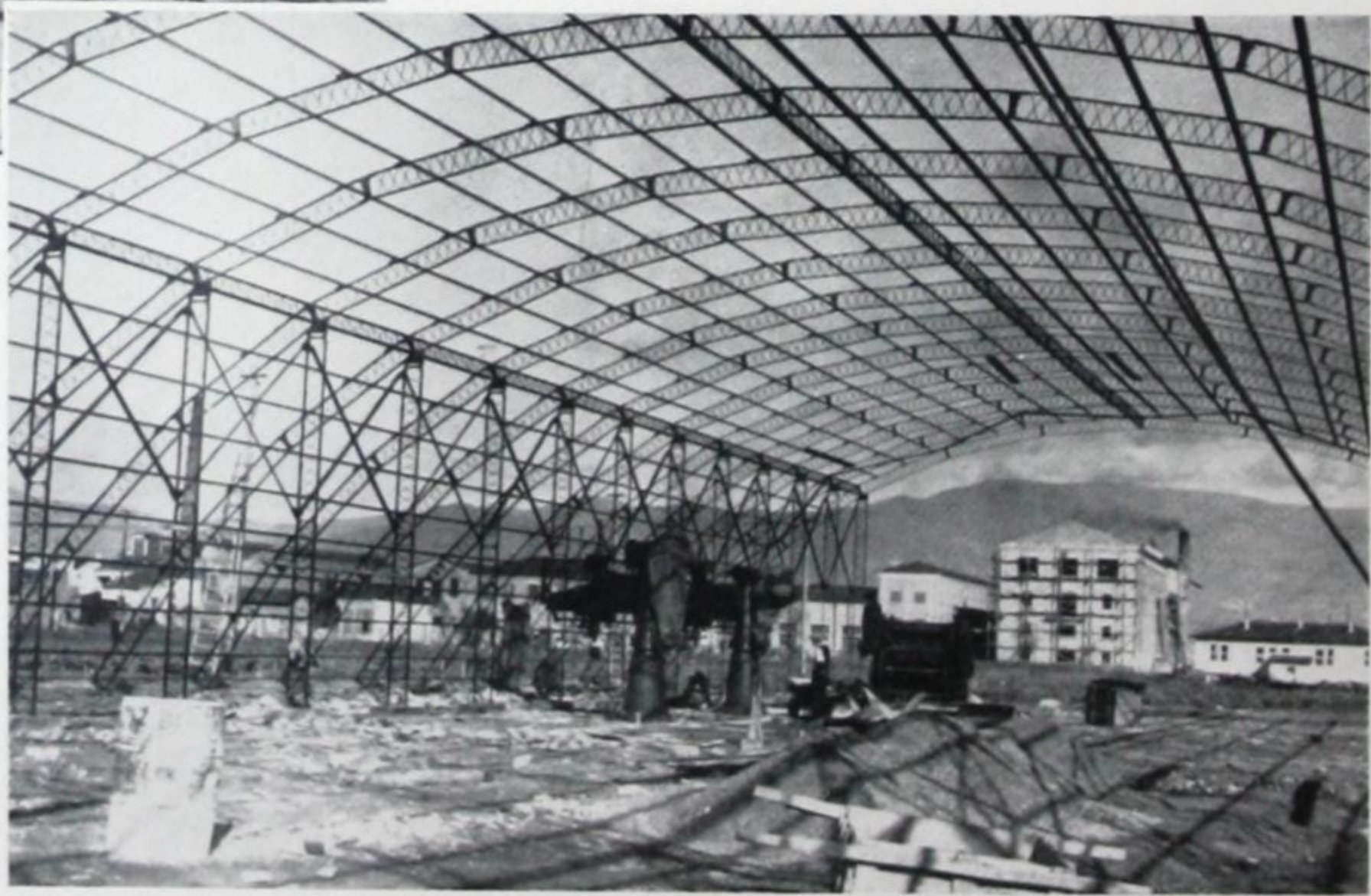
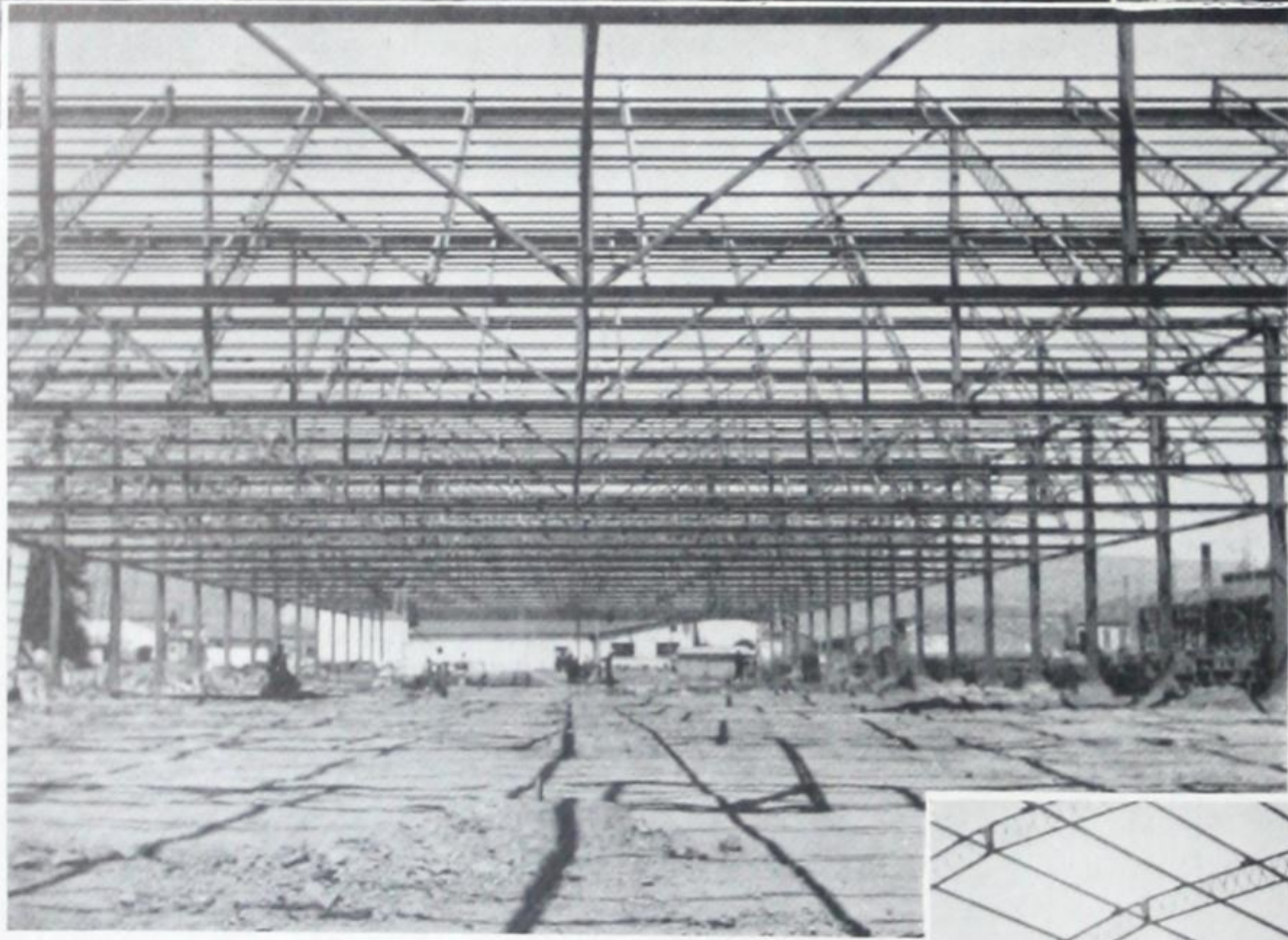
131. PICCADILLY THEATRE—BIRMINGHAM, ENGLAND



132. STEEL FRAMED CONCERT HALL AND PAVILION—
WORTHING, SUSSEX, ENGLAND



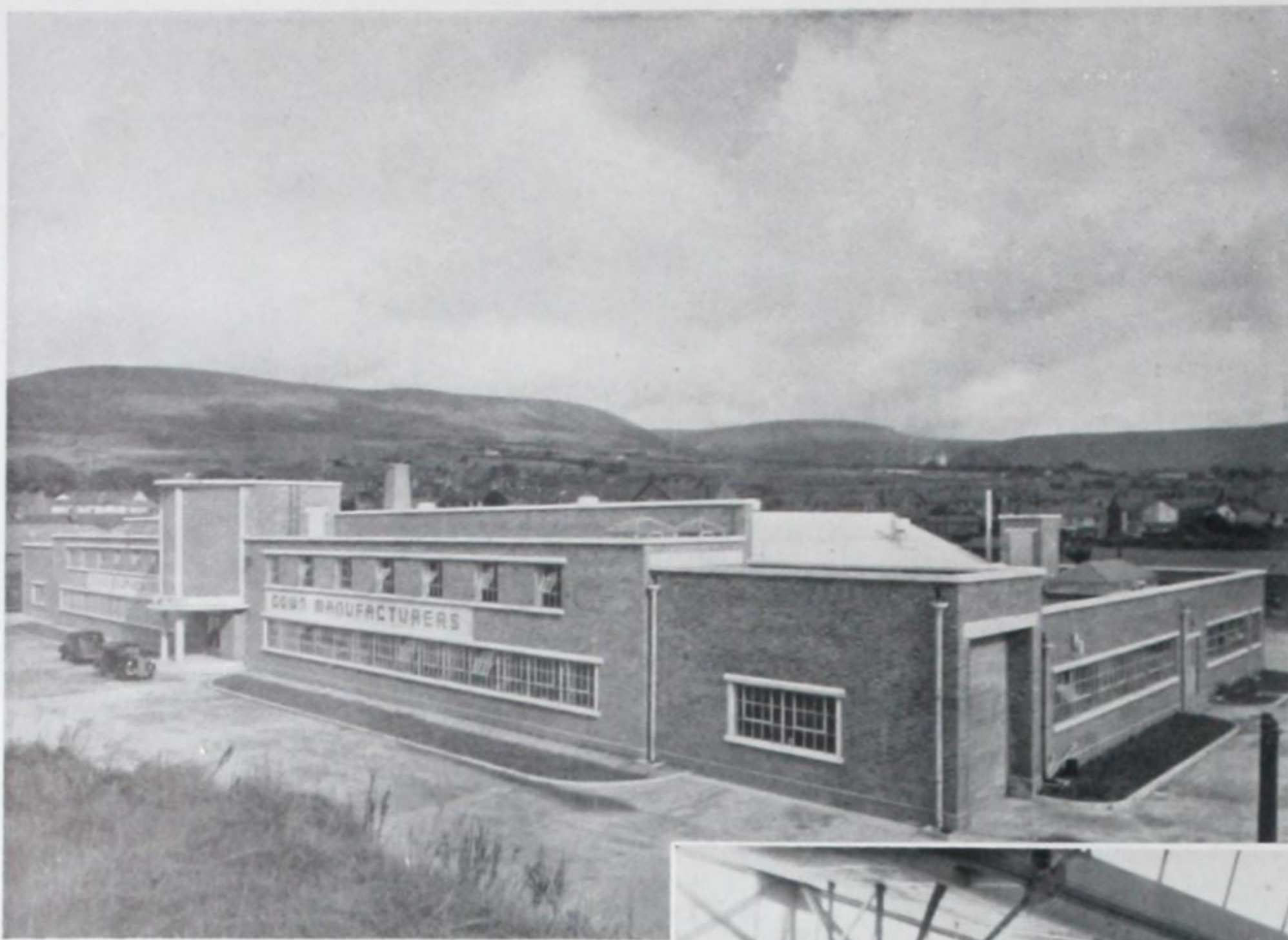
133. STEEL FRAMED DANCE HALL—HASTINGS, SUSSEX, ENGLAND



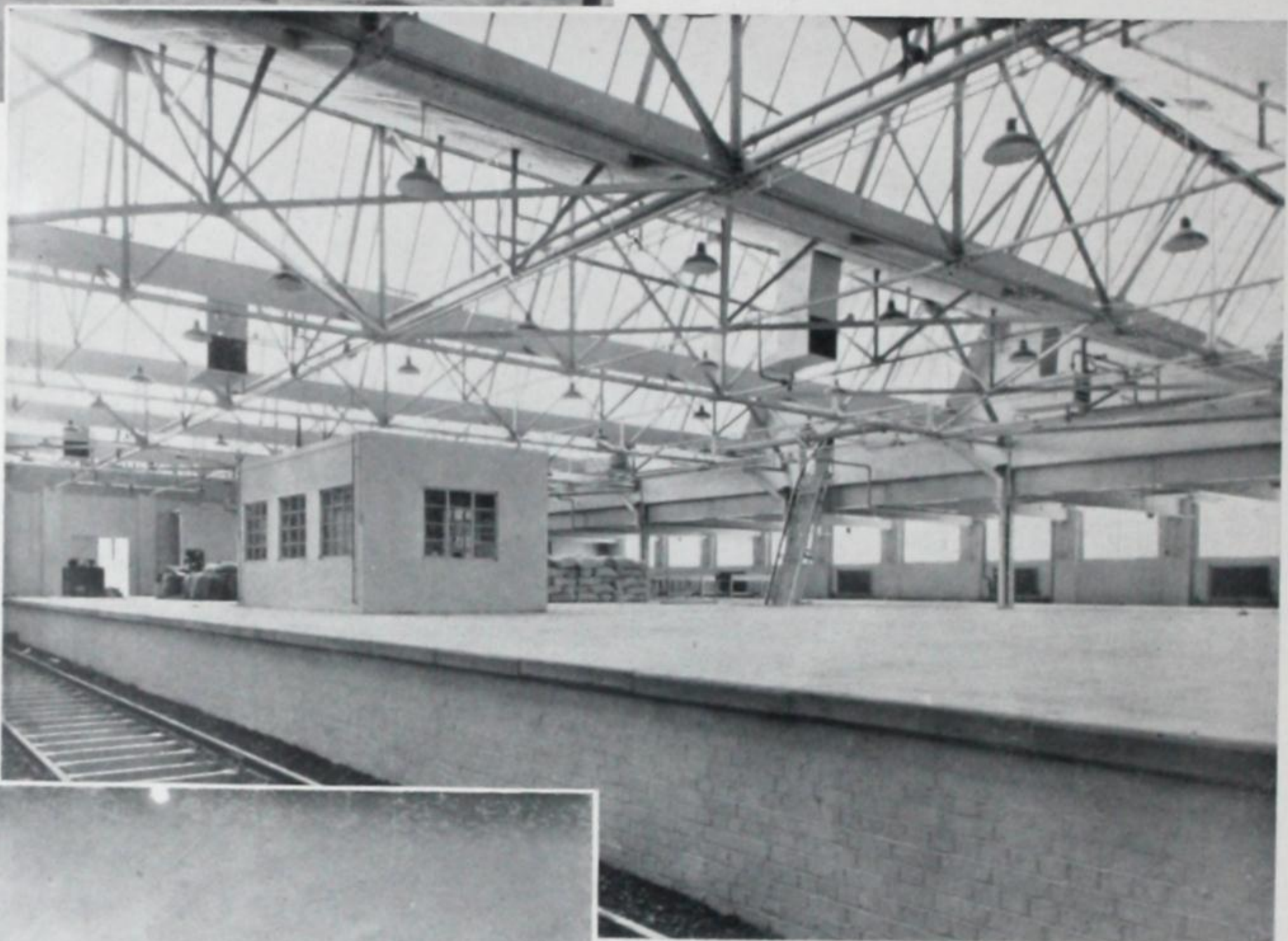
134. STEEL FRAMED FACTORY BUILDINGS OF SPECIAL DESIGN—TURKEY



135. STEEL FRAMED GRAND STAND FOR POLO GROUND—ROEHAMPTON, ENGLAND



136. STEEL FRAMED FACTORIES—
SOUTH WALES



137. Two of a number of steel framed
factories for a Trading Estate.



138. INTERIOR VIEW OF A FACTORY ON A TRADING ESTATE—SOUTH WALES

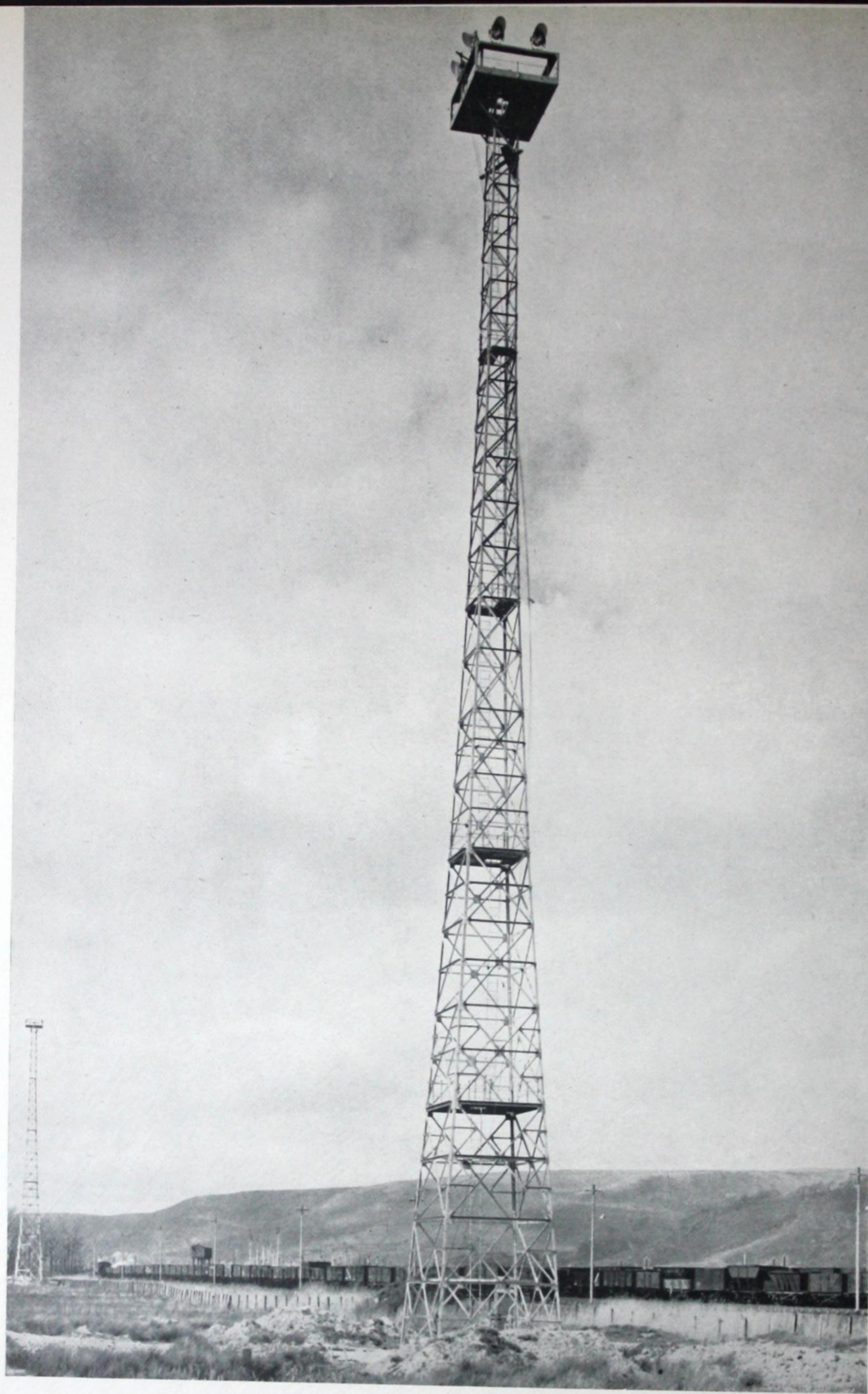
[BLANK PAGE]



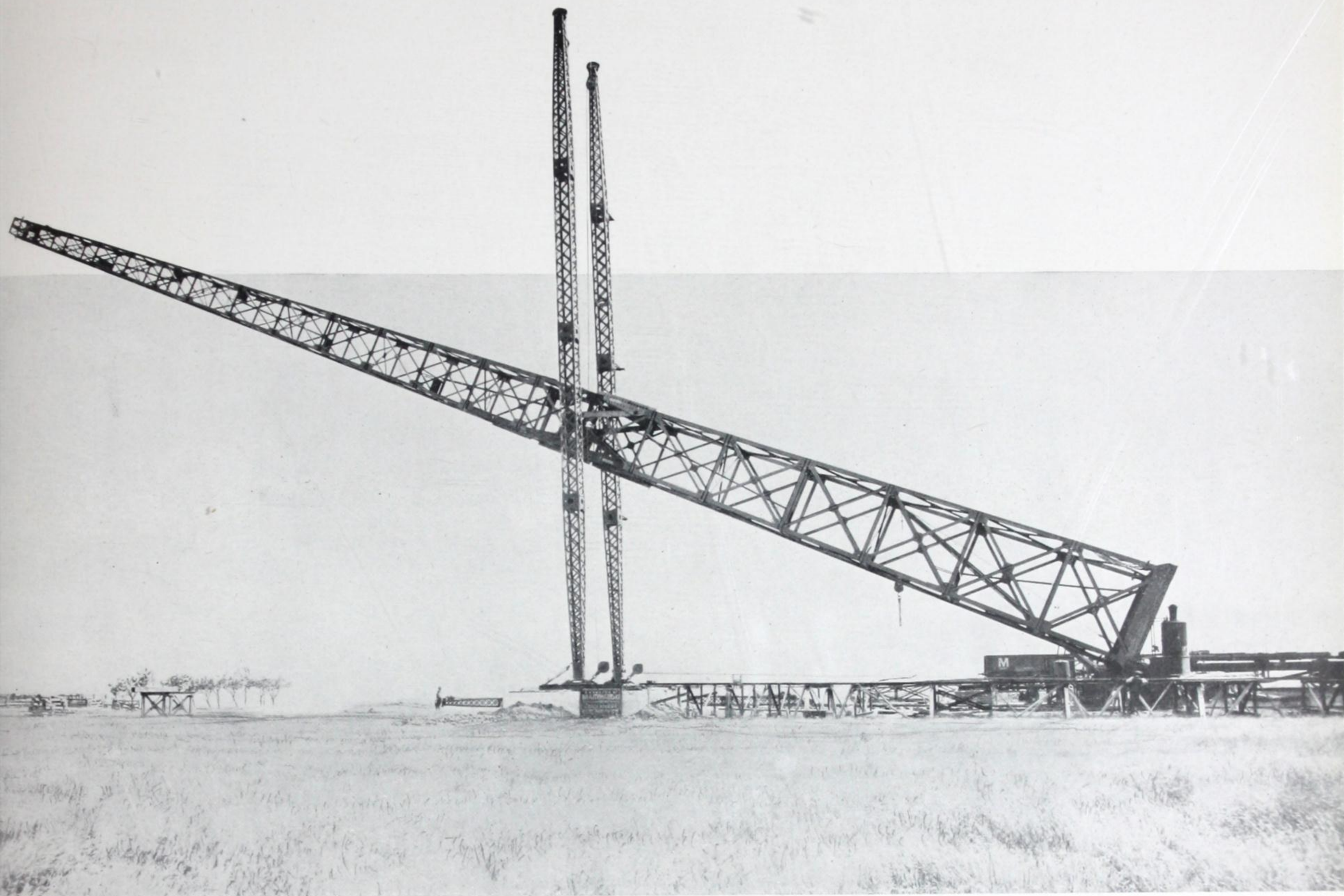
CCA



STEEL TOWERS AND PYLONS



139. FLOOD LIGHTING TOWERS—RAILWAY MARSHALLING YARDS
OF THE STEEL COMPANY OF WALES, MARGAM, S. WALES



140. VELOCITY TOWERS

One of a series of steel towers for the British War Office during erection.
165 feet high and weighing 64 tons.

[BLANK PAGE]



CCA



WELDED STRUCTURES



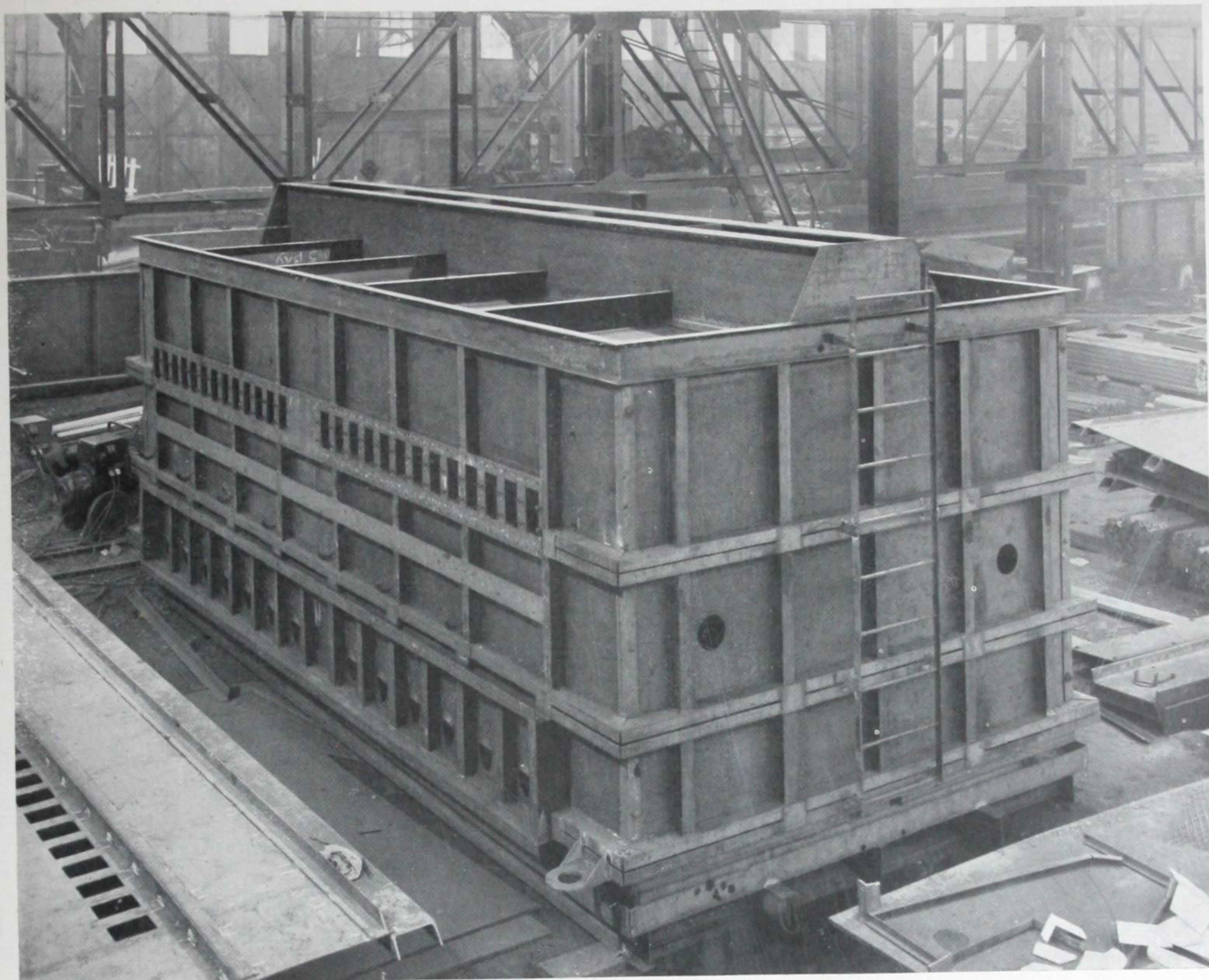
141 STEEL FRAMED FLATS—STREATHAM, LONDON, ENGLAND
The first all-welded framework for a block of flats in England.



142. AN ALL-WELDED STEEL FRAMED PAVILION AND SOLARIUM—
BEXHILL, SUSSEX, ENGLAND



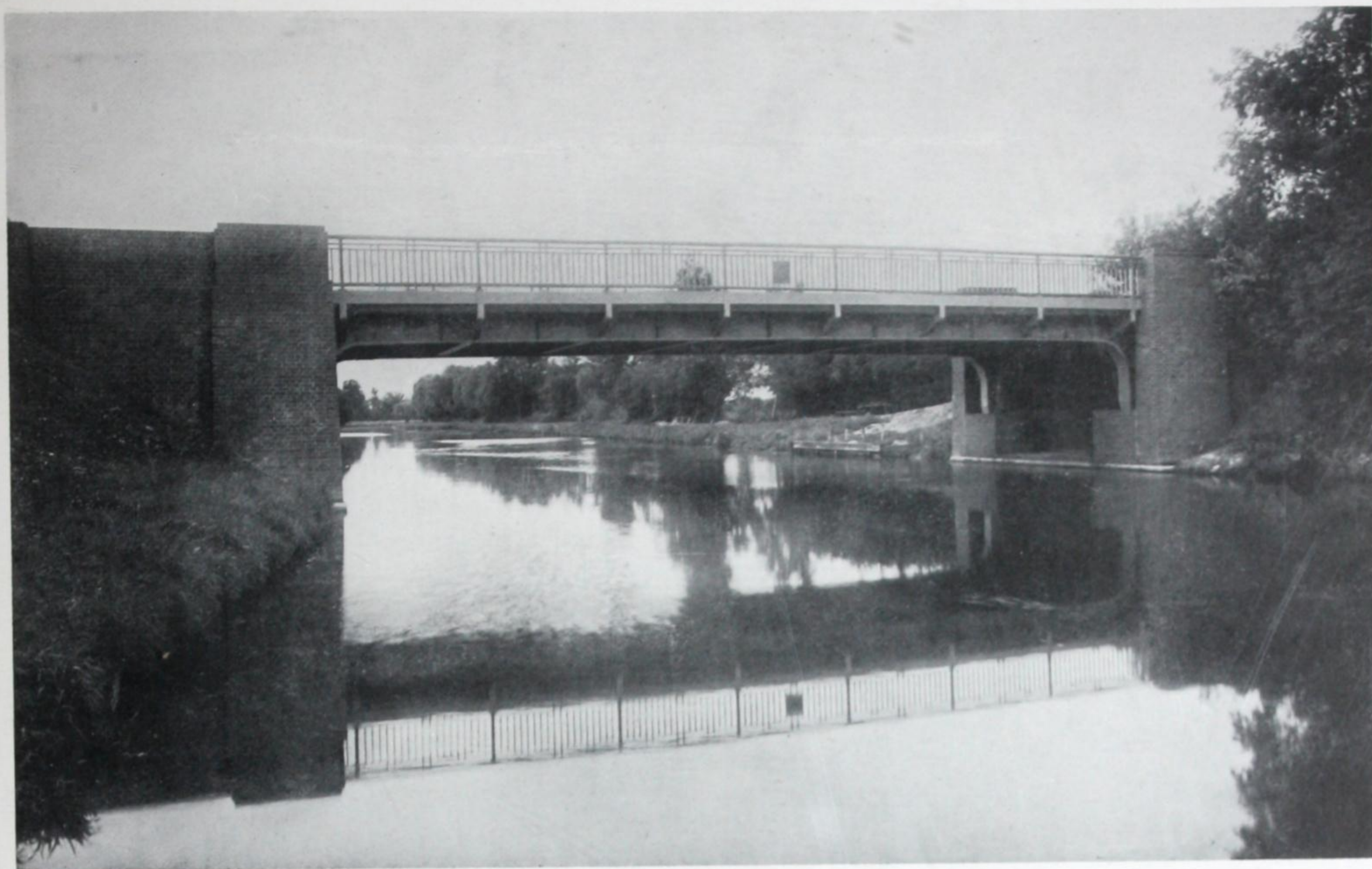
143. WELDED ROOF FRAMES, MAIN GIRDERS & STANCHIONS
FOR THE STEEL COMPANY OF WALES



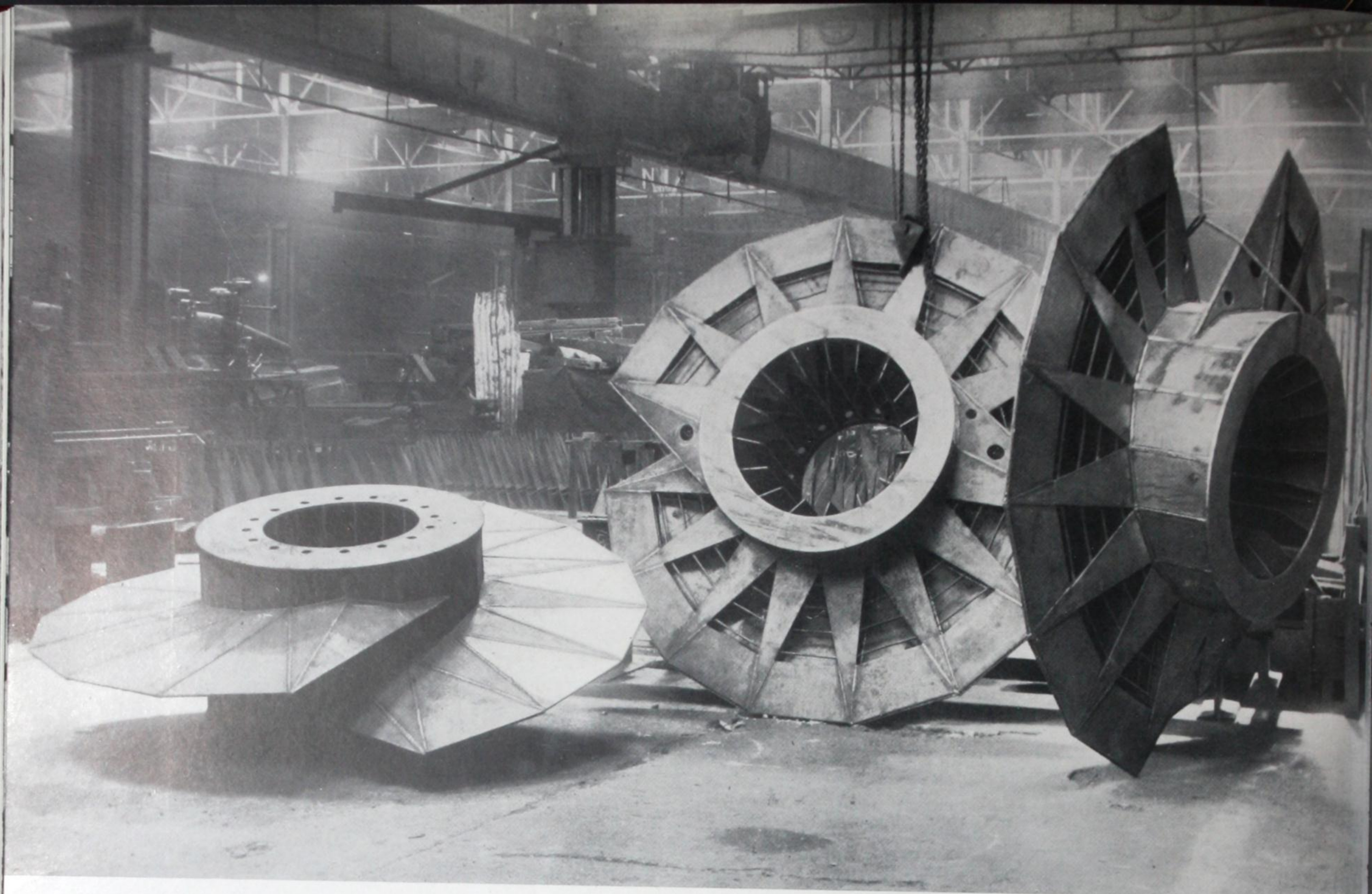
144. WELDED STEEL FURNACE CASING



145. WELDED SUPERSTRUCTURE—WESTON-SUPER-MARE, SOMERSET, ENGLAND

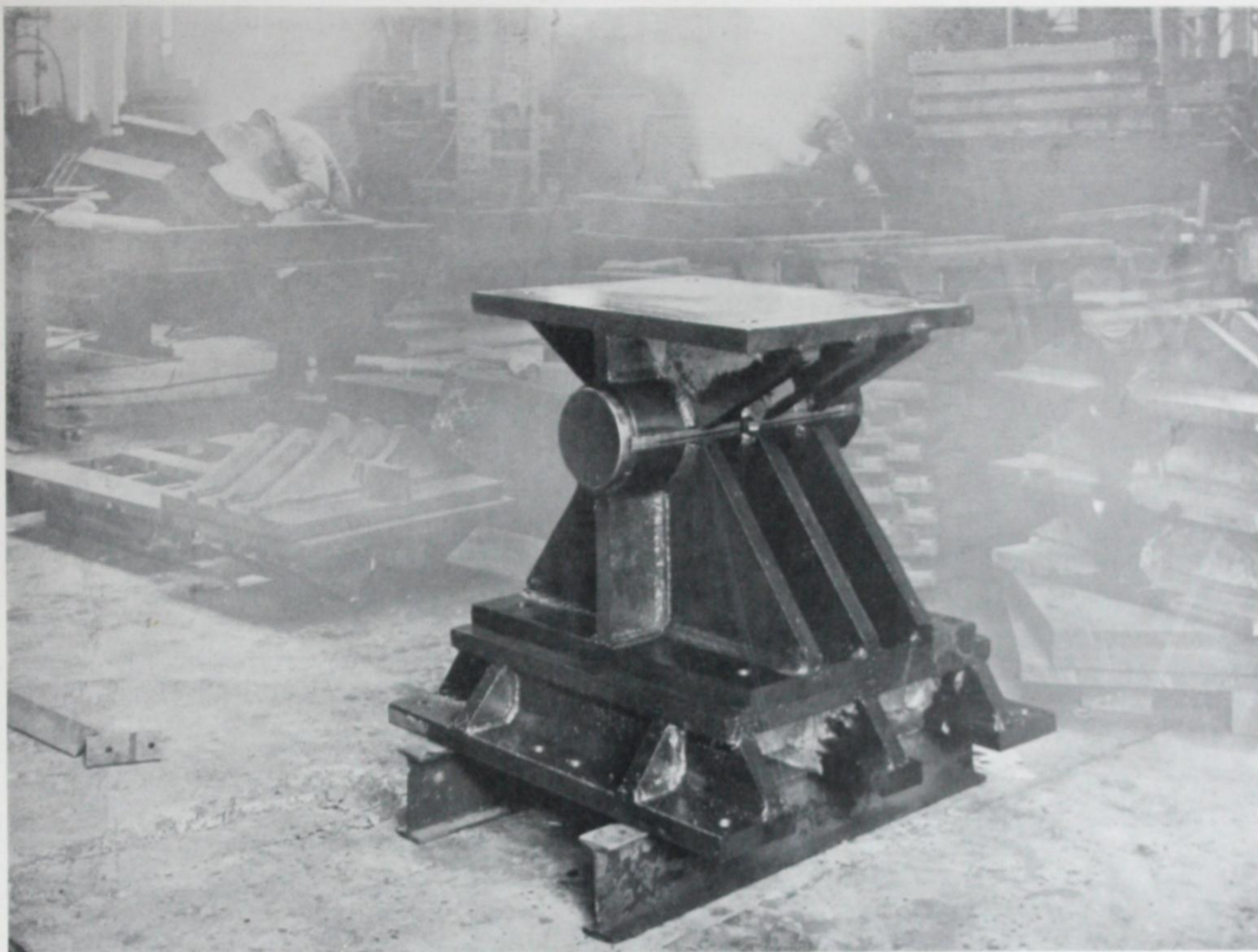


146. ROAD BRIDGE—CLAYHITHE, ESSEX, ENGLAND
The first all-welded steel road bridge in England.

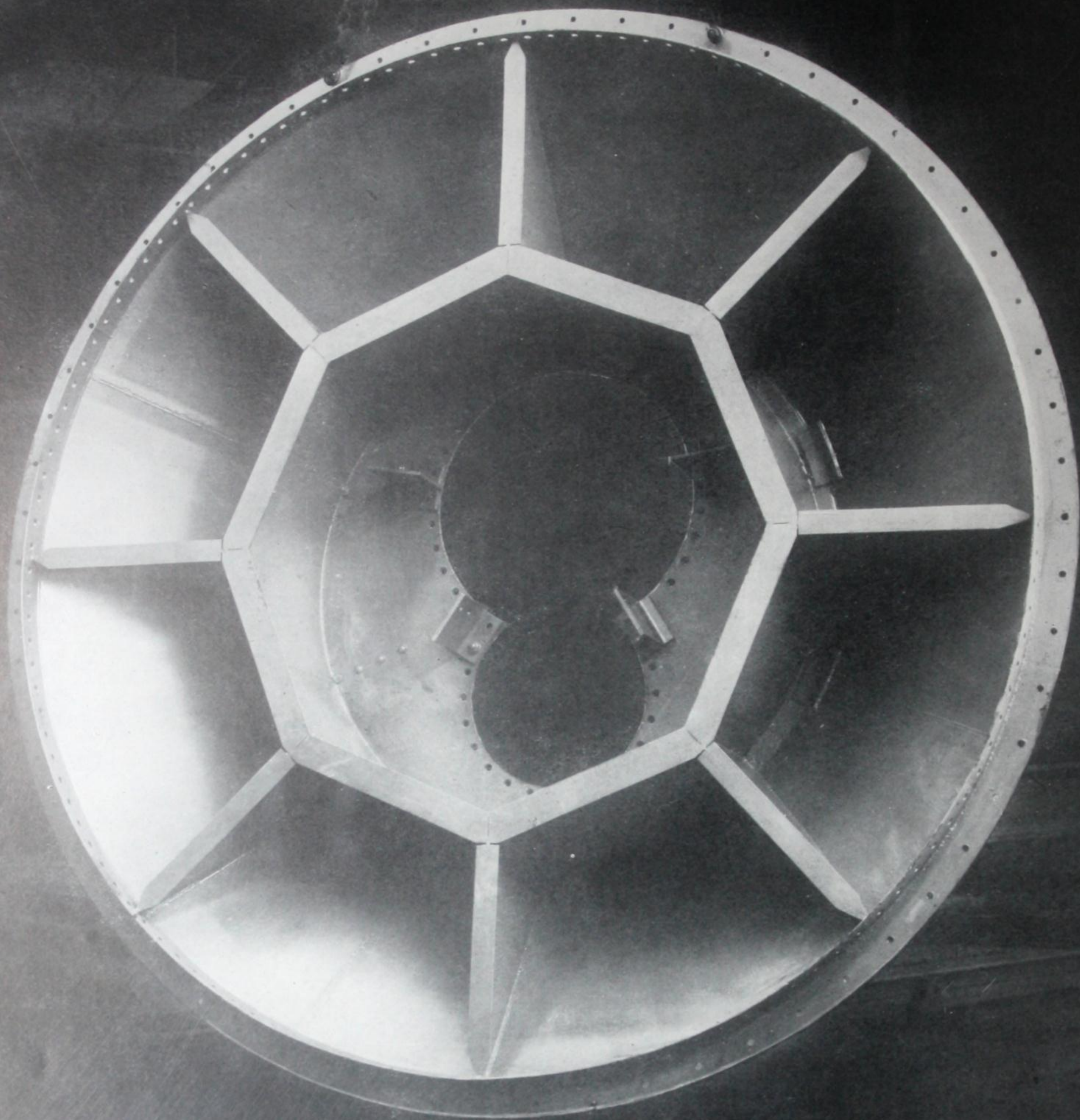


147. BRIDGE FOUNDATIONS

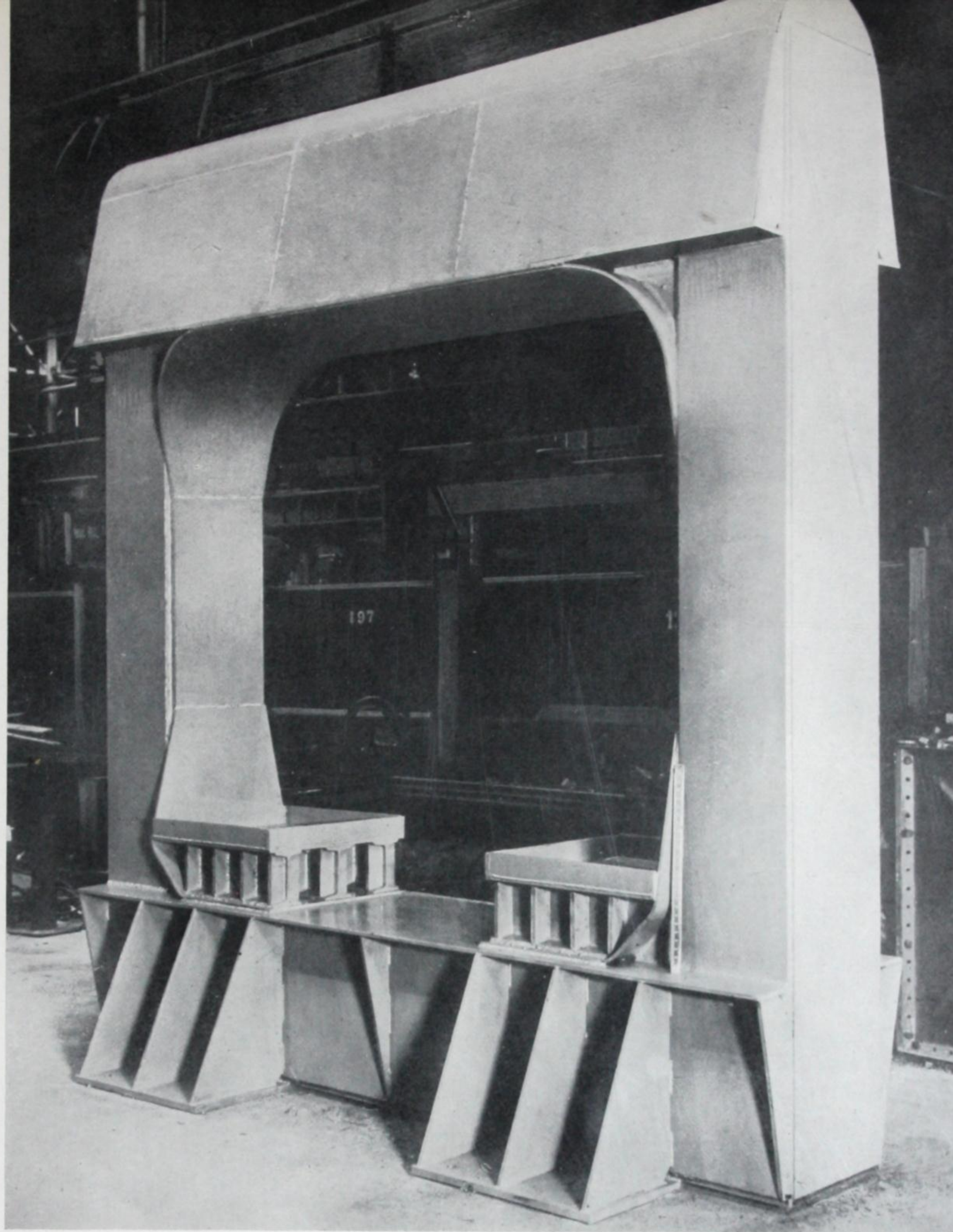
Welded steel helices for use in conjunction with Screwcrete bridge or wharf foundations.



148. BRIDGE BEARINGS of welded construction

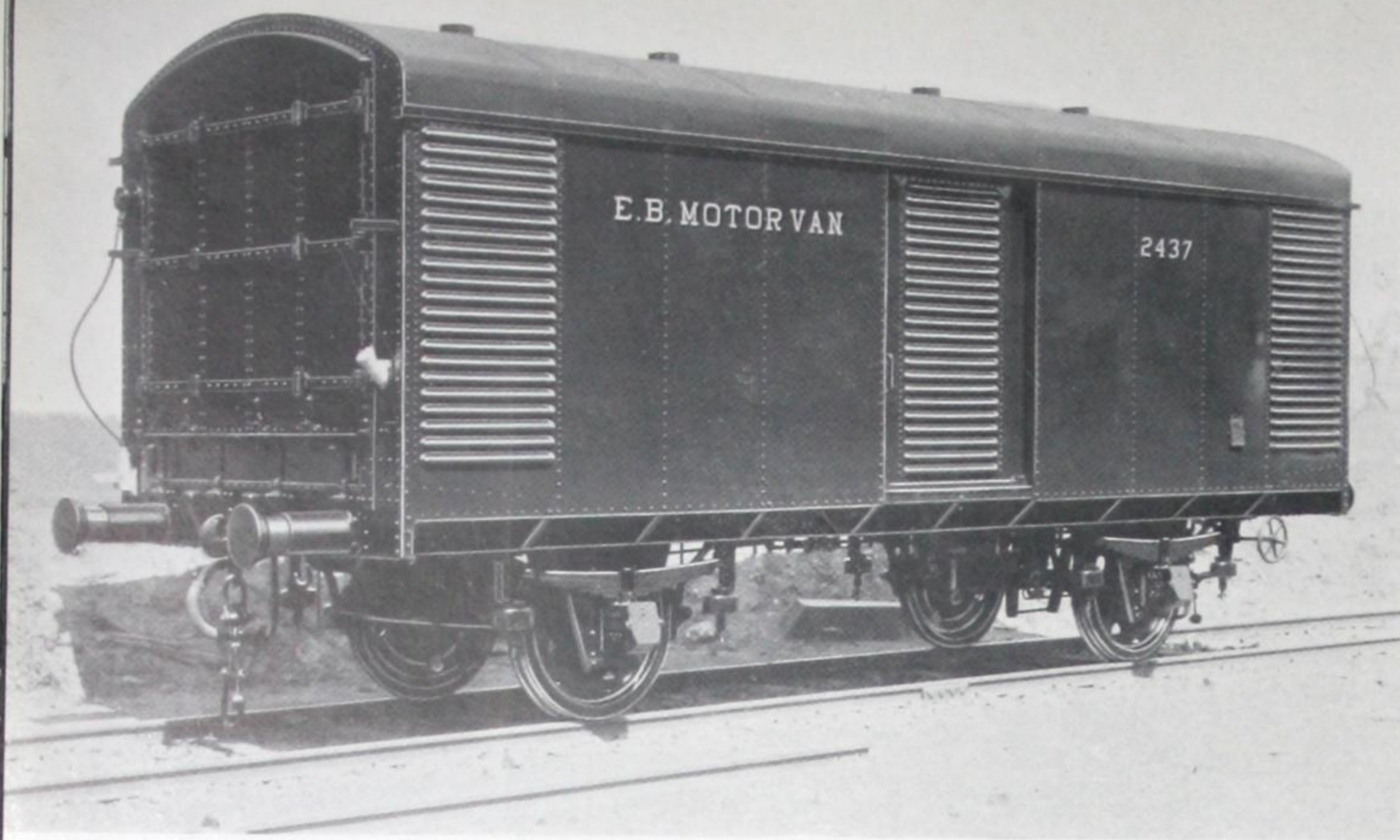


149. WELDED AIR DOME, Baghdad Bridge

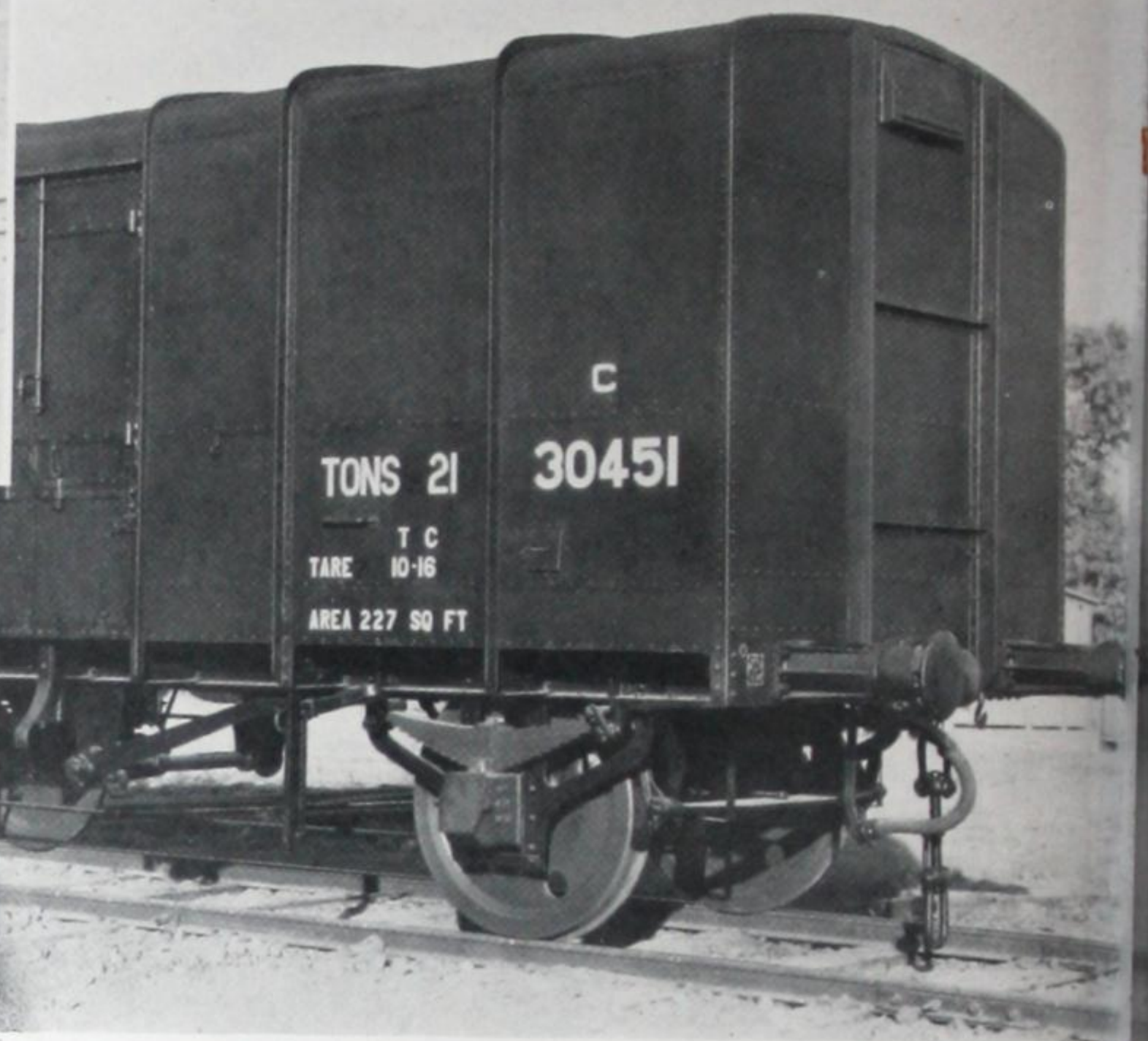
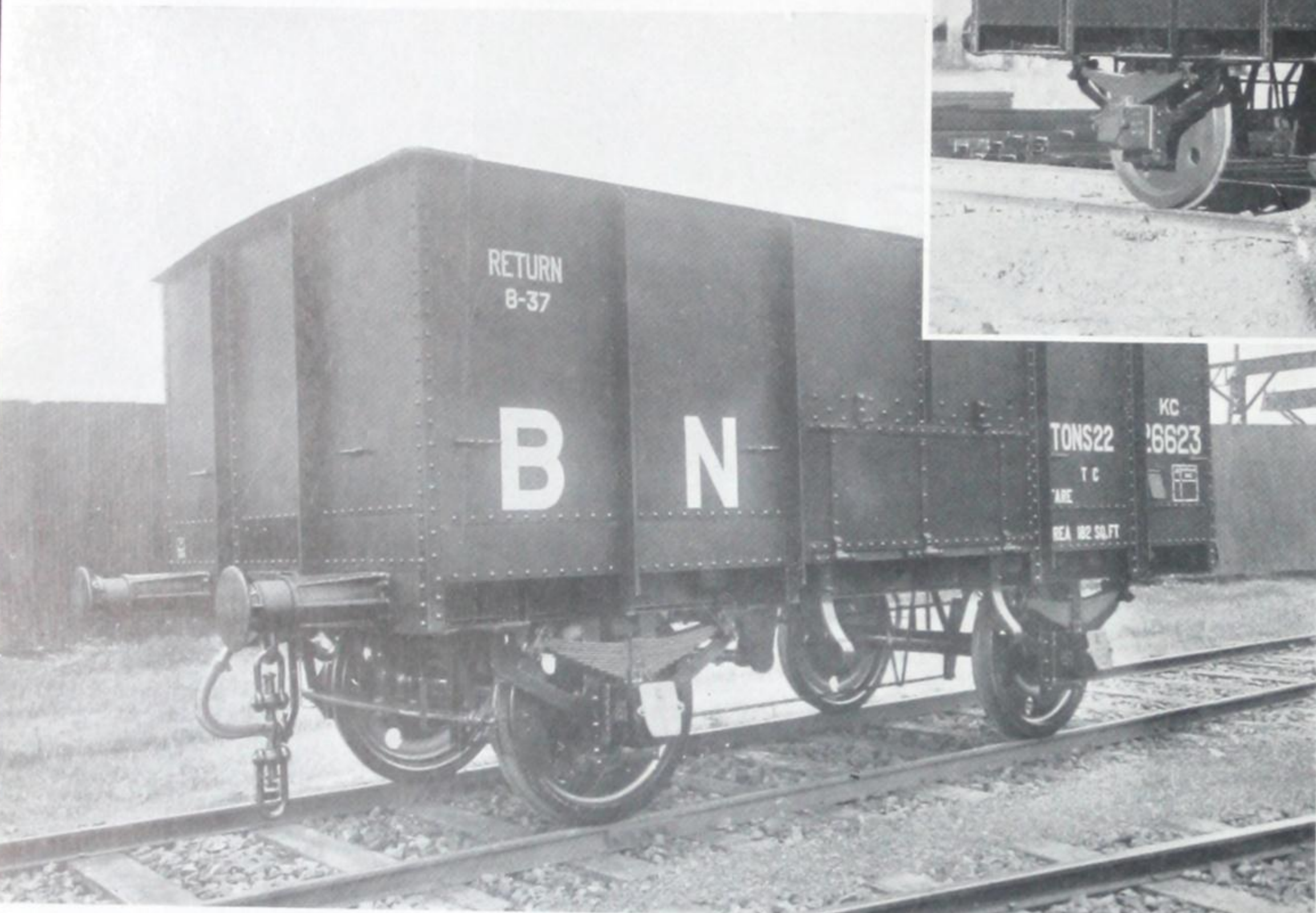


150. HYDRAULIC PRESS FRAME
All-welded steel construction.

151. RAILWAY ROLLING STOCK—



153. Steel van for the transport of cars supplied to the Eastern Bengal & Bengal Nagpur railways.

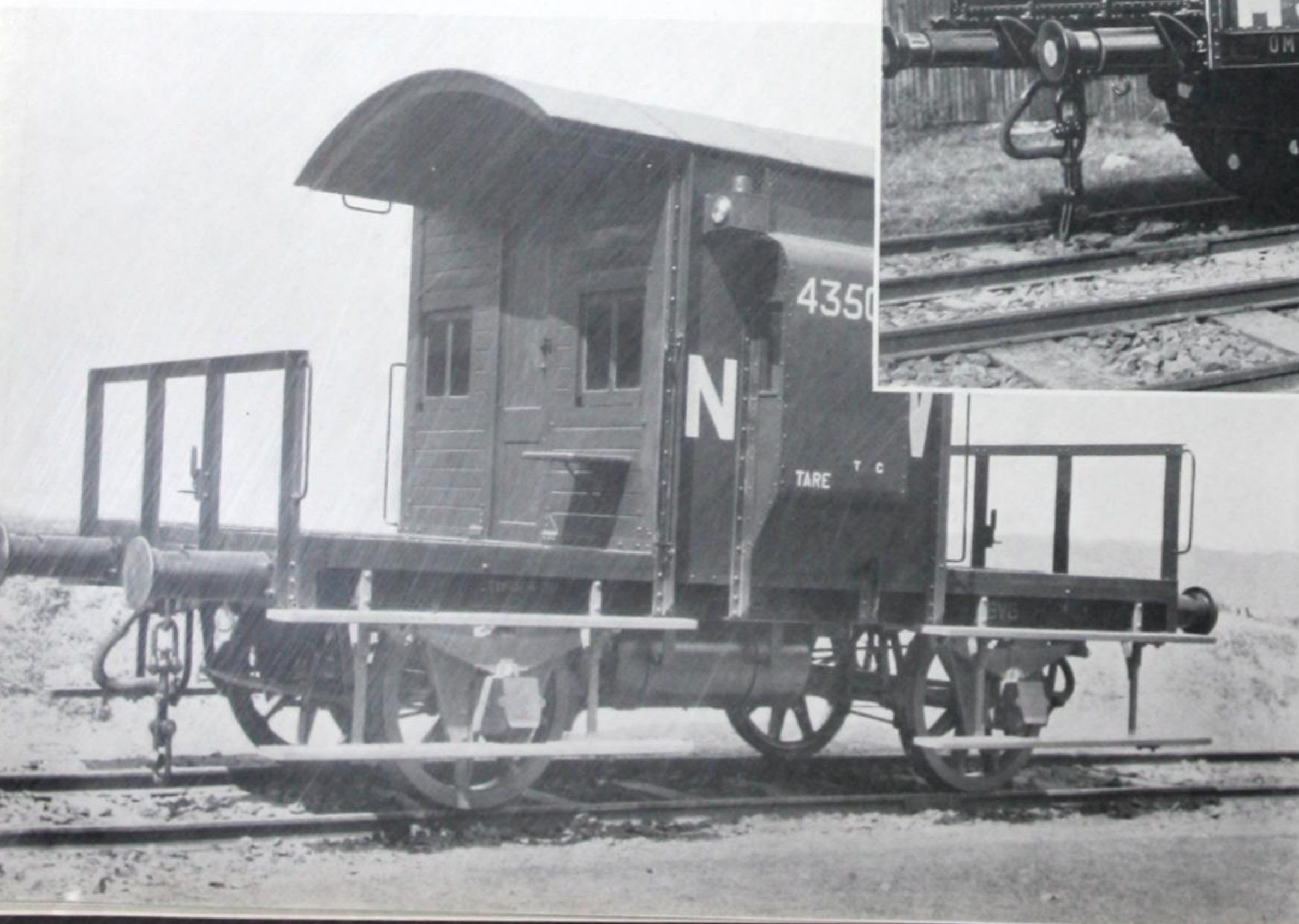


152. Covered roof type wagon for the Bengal Nagpur Railway.

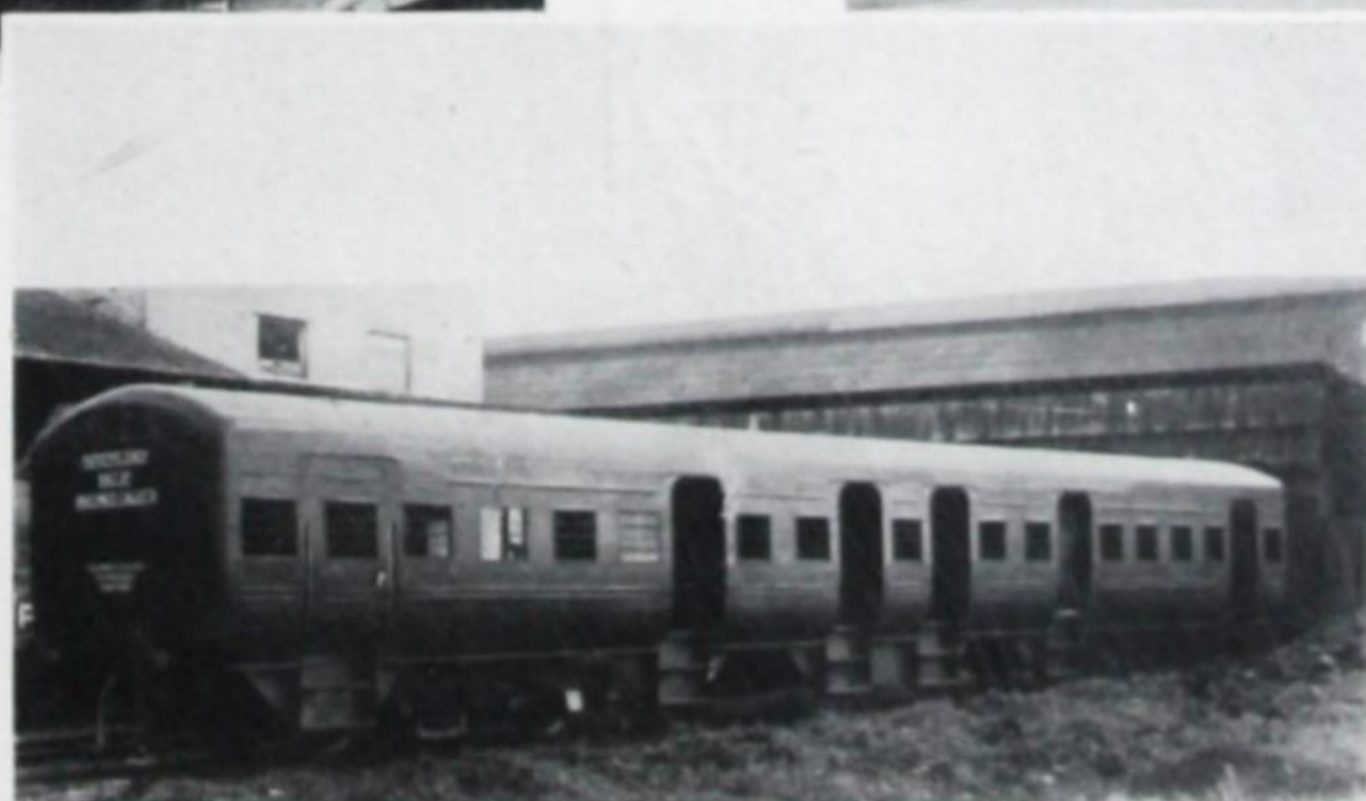
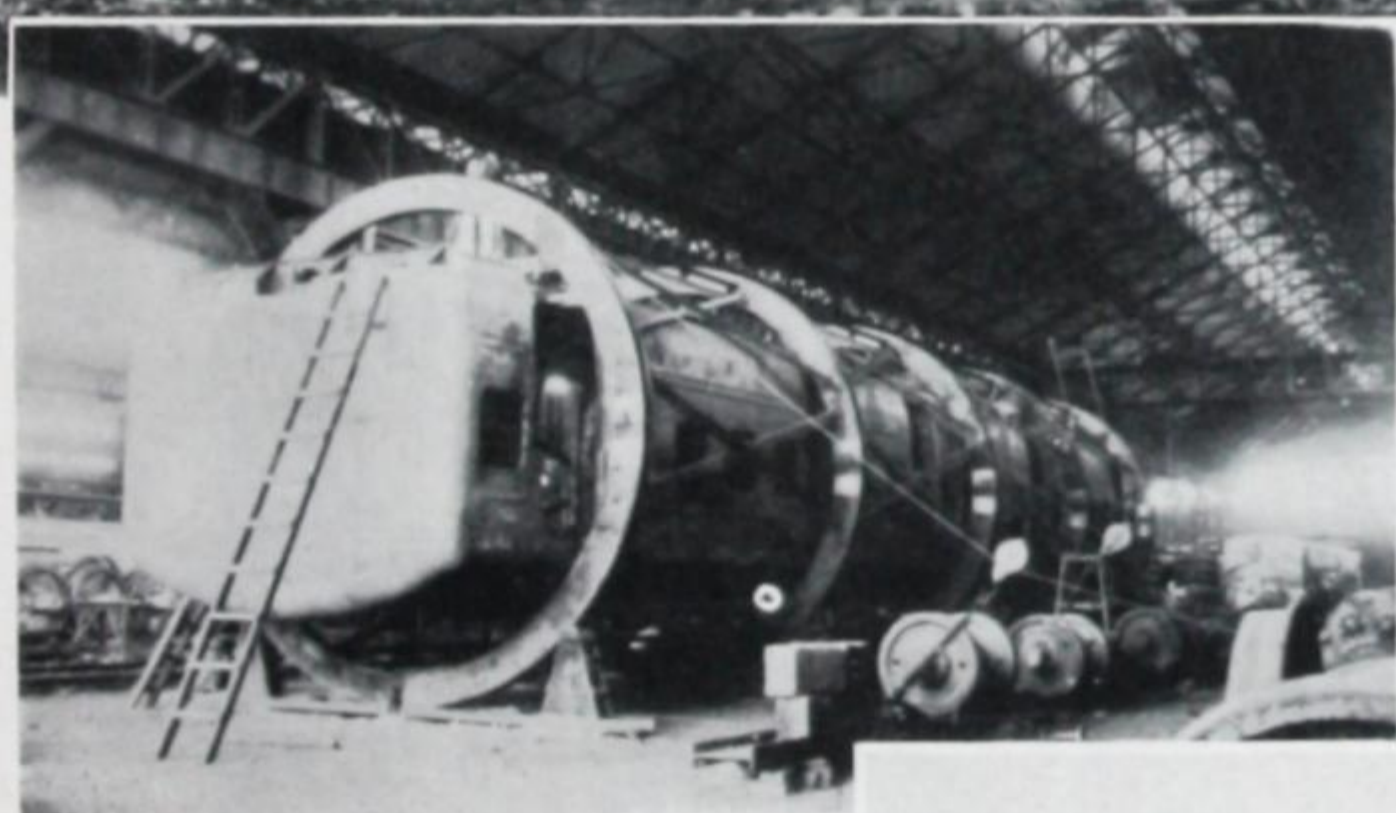
154. Open type steel wagon supplied to various Indian railways.



155. Open mineral wagon supplied to various Indian railways.



156. Brake van supplied to various Indian railways.



157. RAILWAY WAGONS

Examples of welded steel rolling stock built by Braithwaite & Co. (India) Limited.

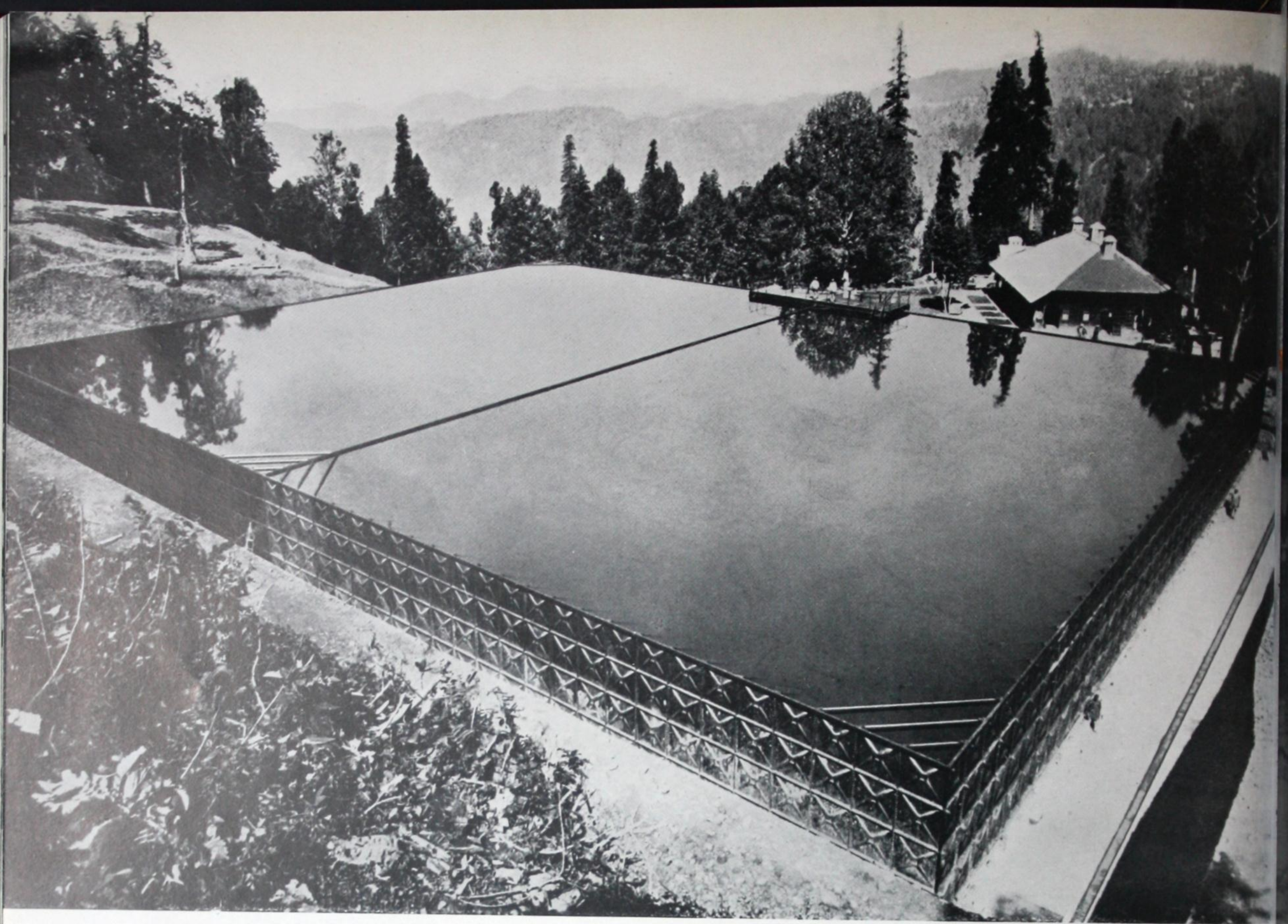
[BLANK PAGE]



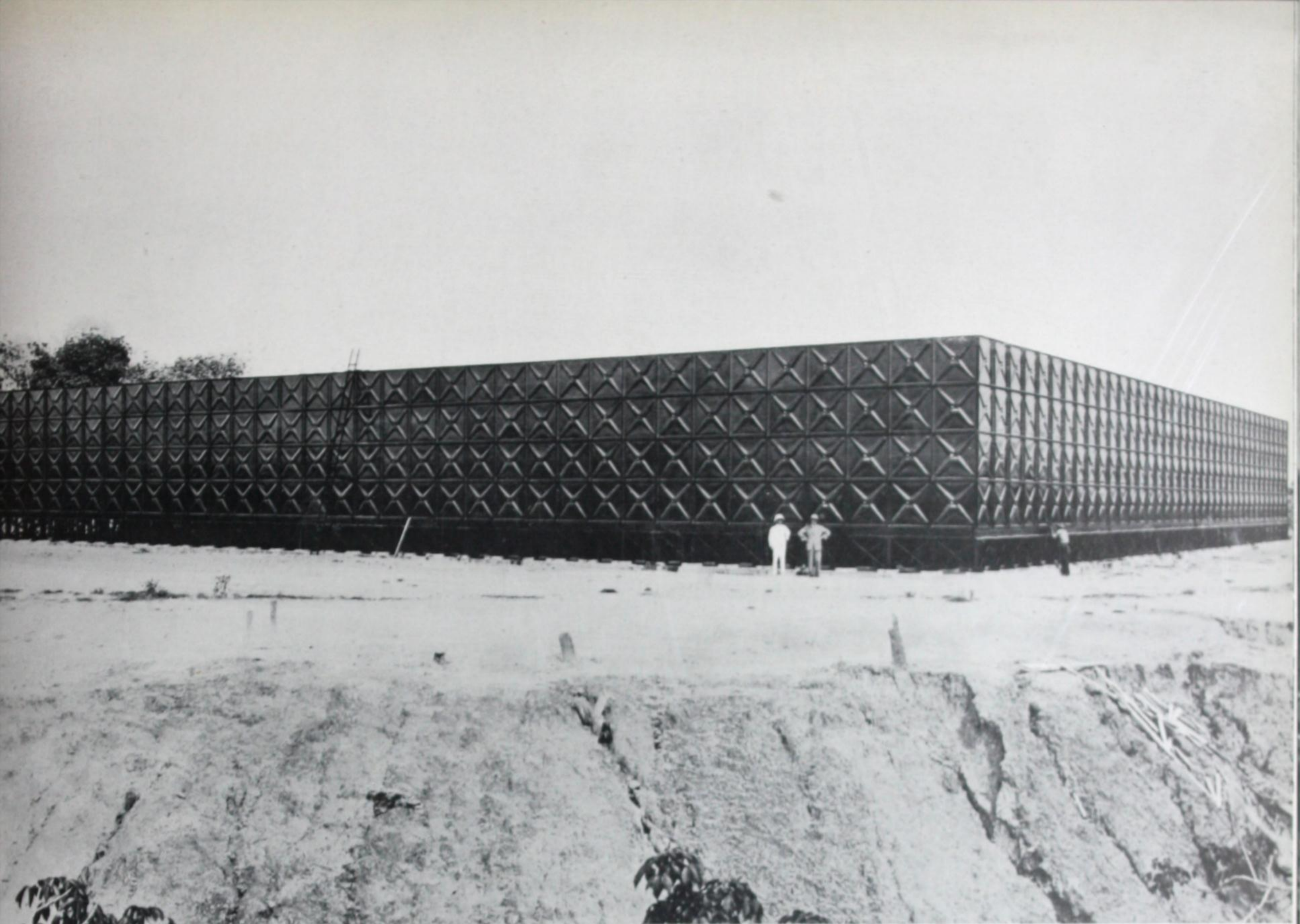
CCA



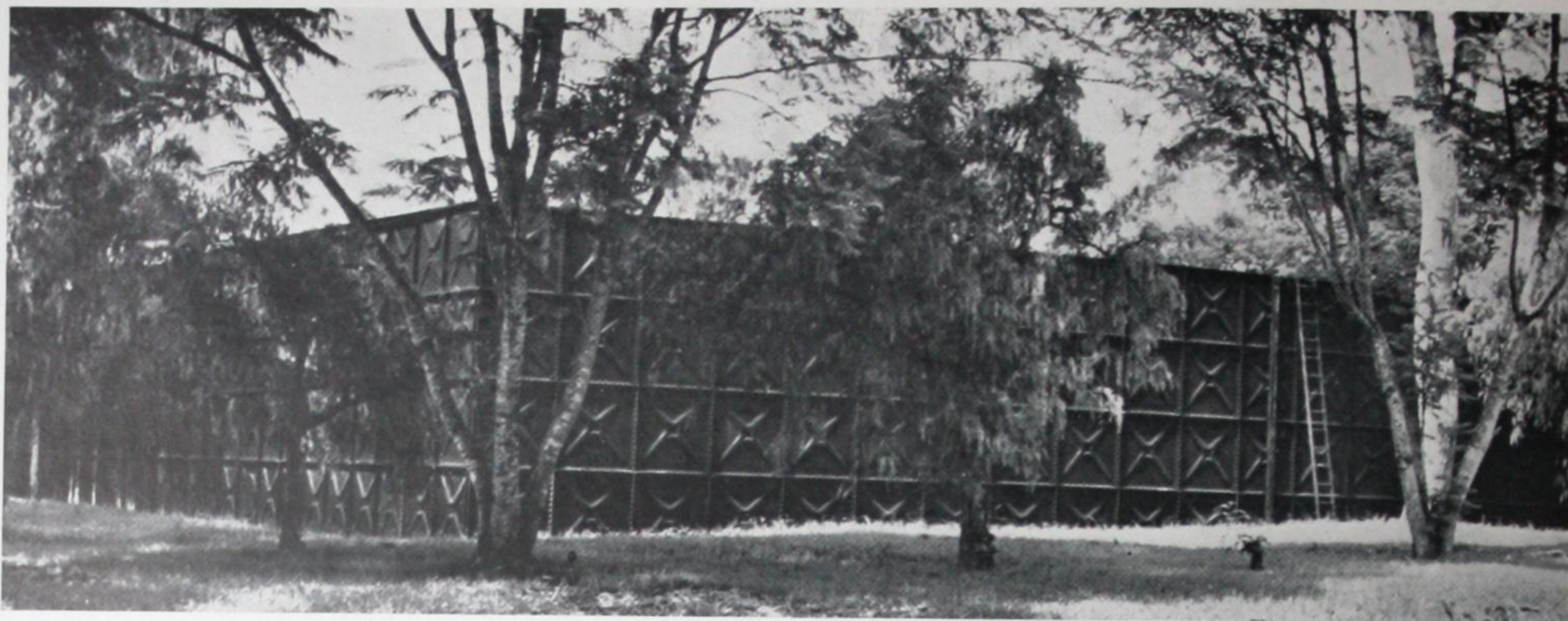
PRESSED STEEL TANKS



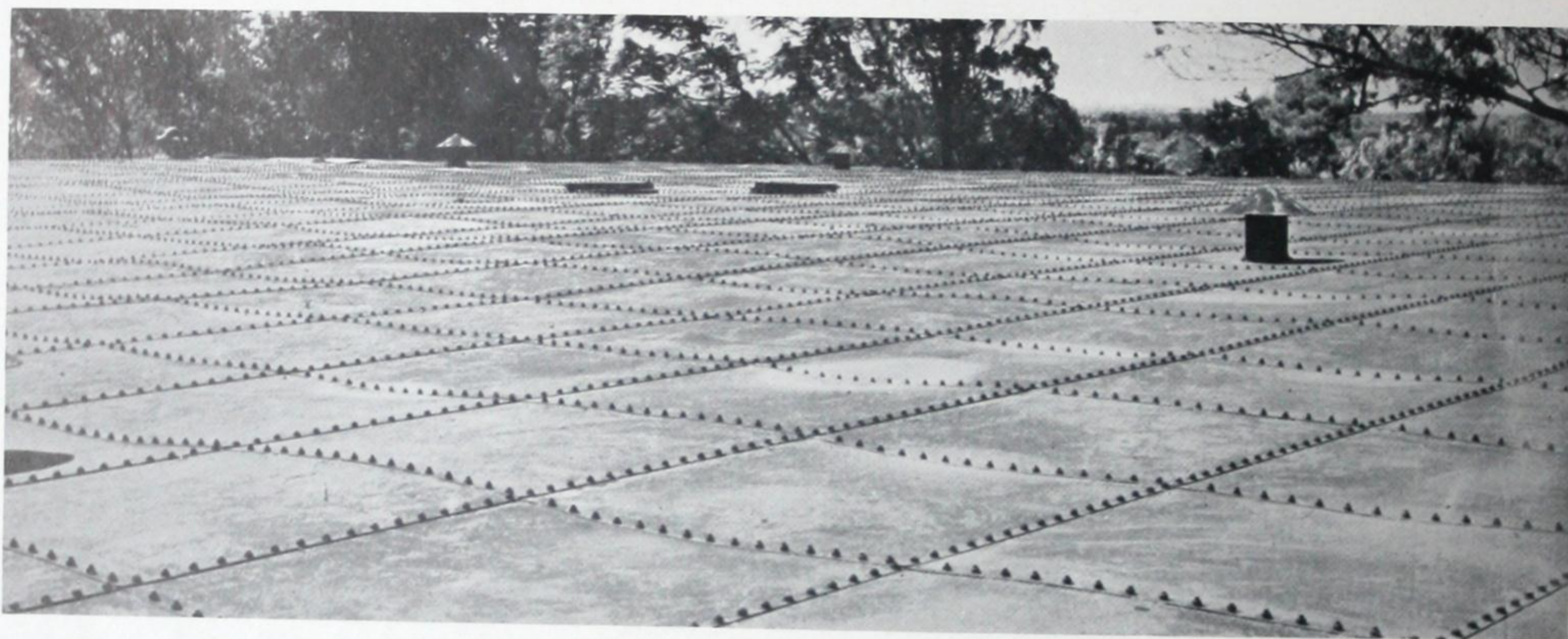
158. PRESSED STEEL TANK—MURREE, INDIA
The largest sectional tank in the world, $3\frac{1}{4}$ million gallons capacity.



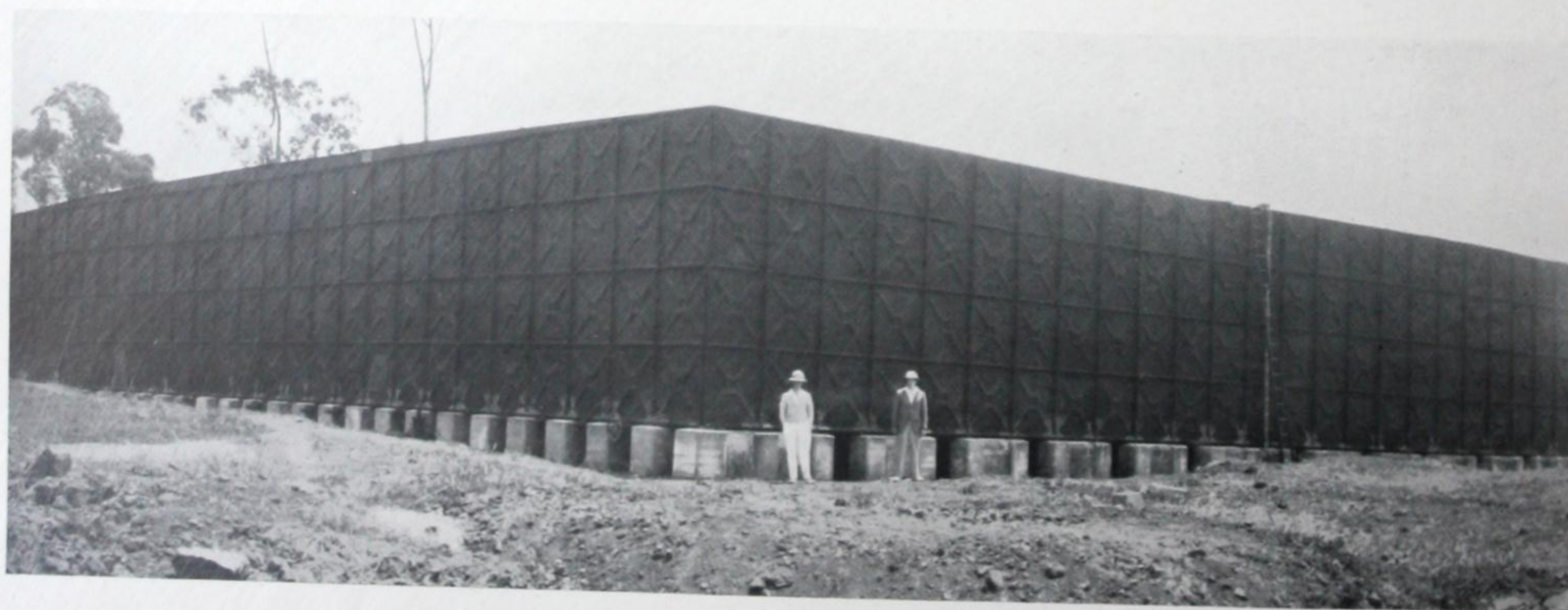
159. PRESSED STEEL TANK, KUCHING, SARAWAK
2½ million gallons capacity. A second tank is now in course of erection.



160. PRESSED STEEL TANK—NAIROBI, KENYA
One million gallons capacity, after 25 years' service.



161. The cambered cover.



162. The Tank immediately after erection in 1925.



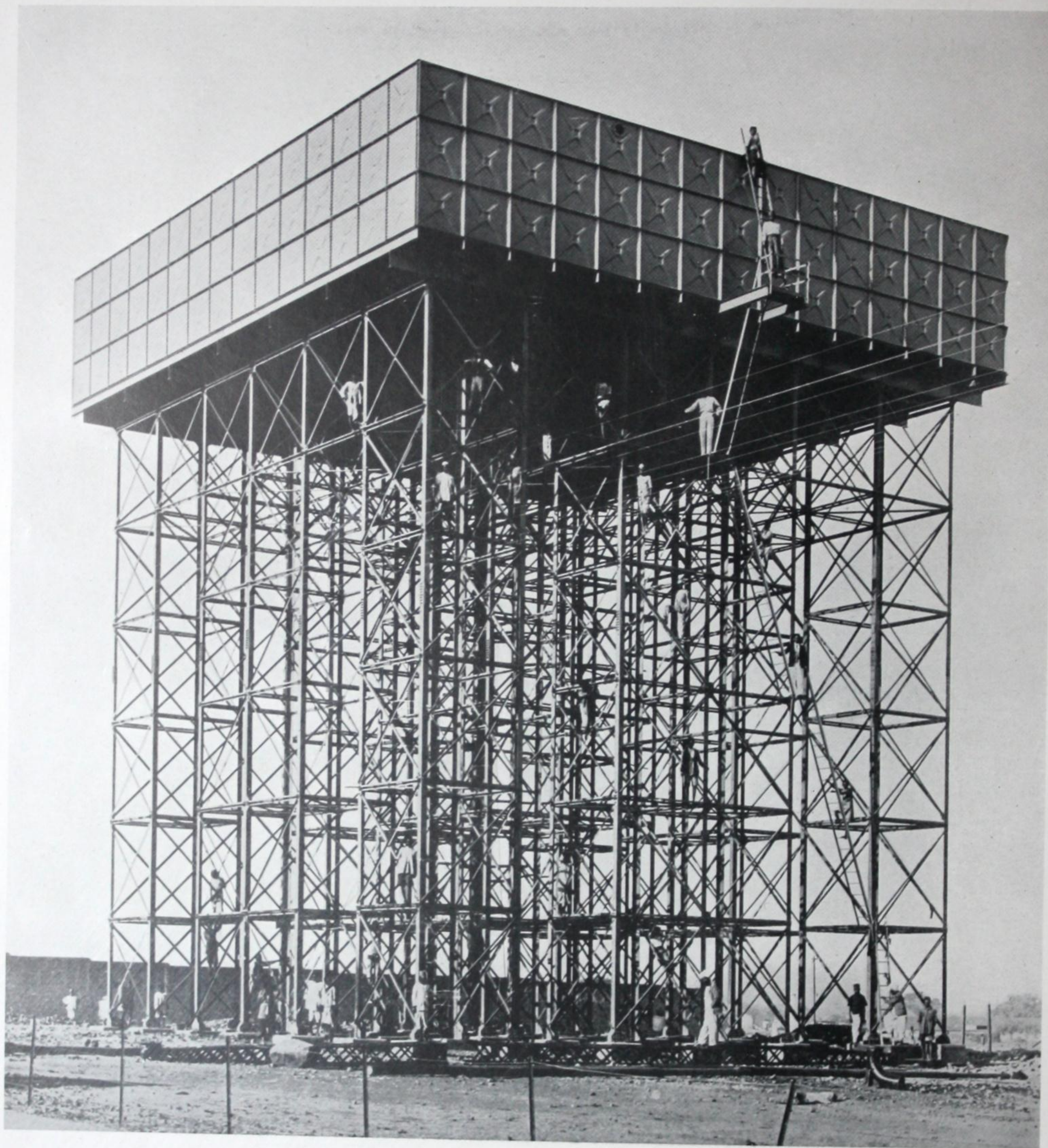
RESSED STEEL TANK AT THE LEA
BRIDGE WORKS OF THE METRO-
POLITAN WATER BOARD. OVER
THREE MILLION GALLONS CAPACITY



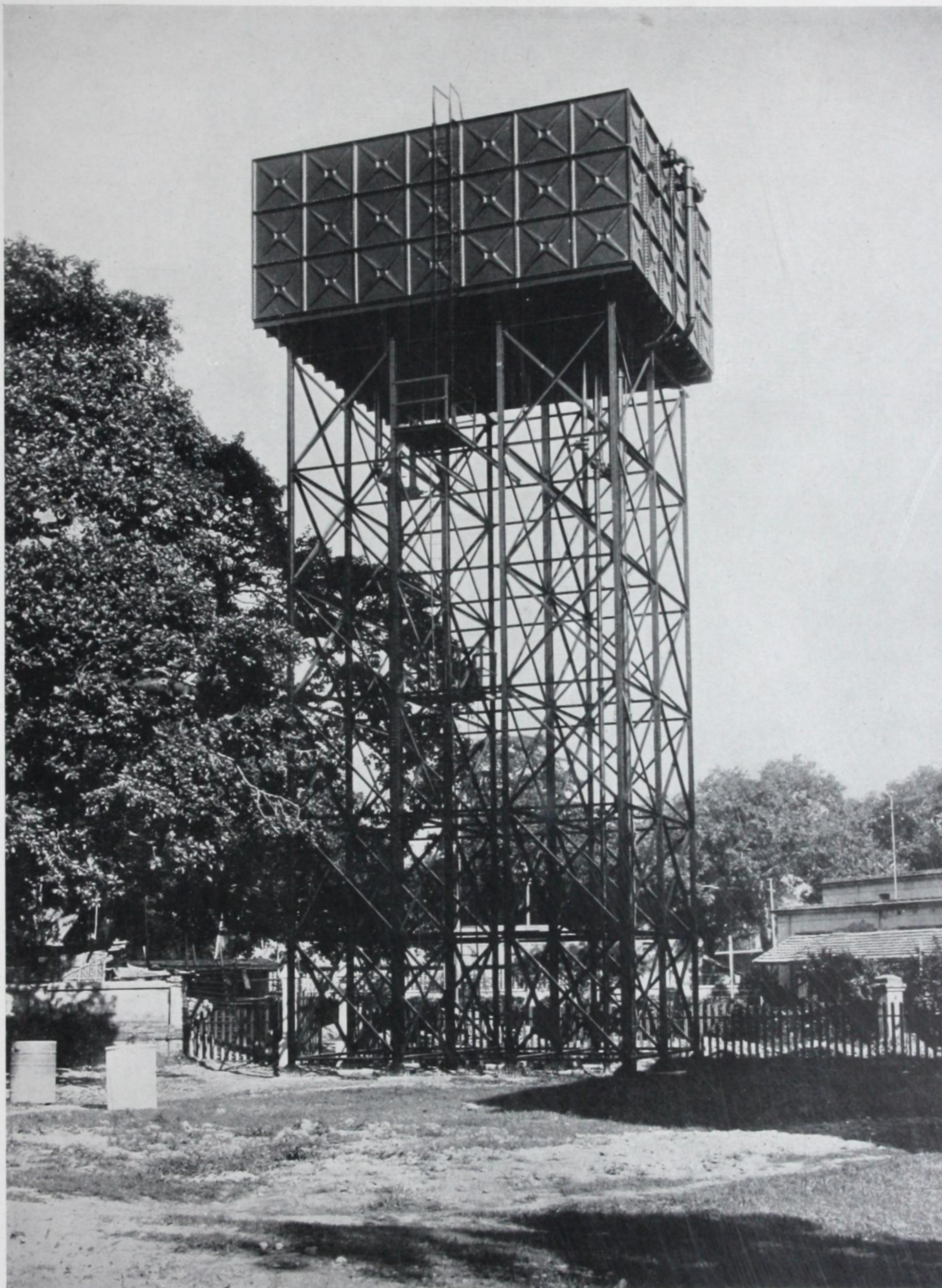
164. Interior view during construction.



164a. The foundation raft for the
tank at Lea Bridge.



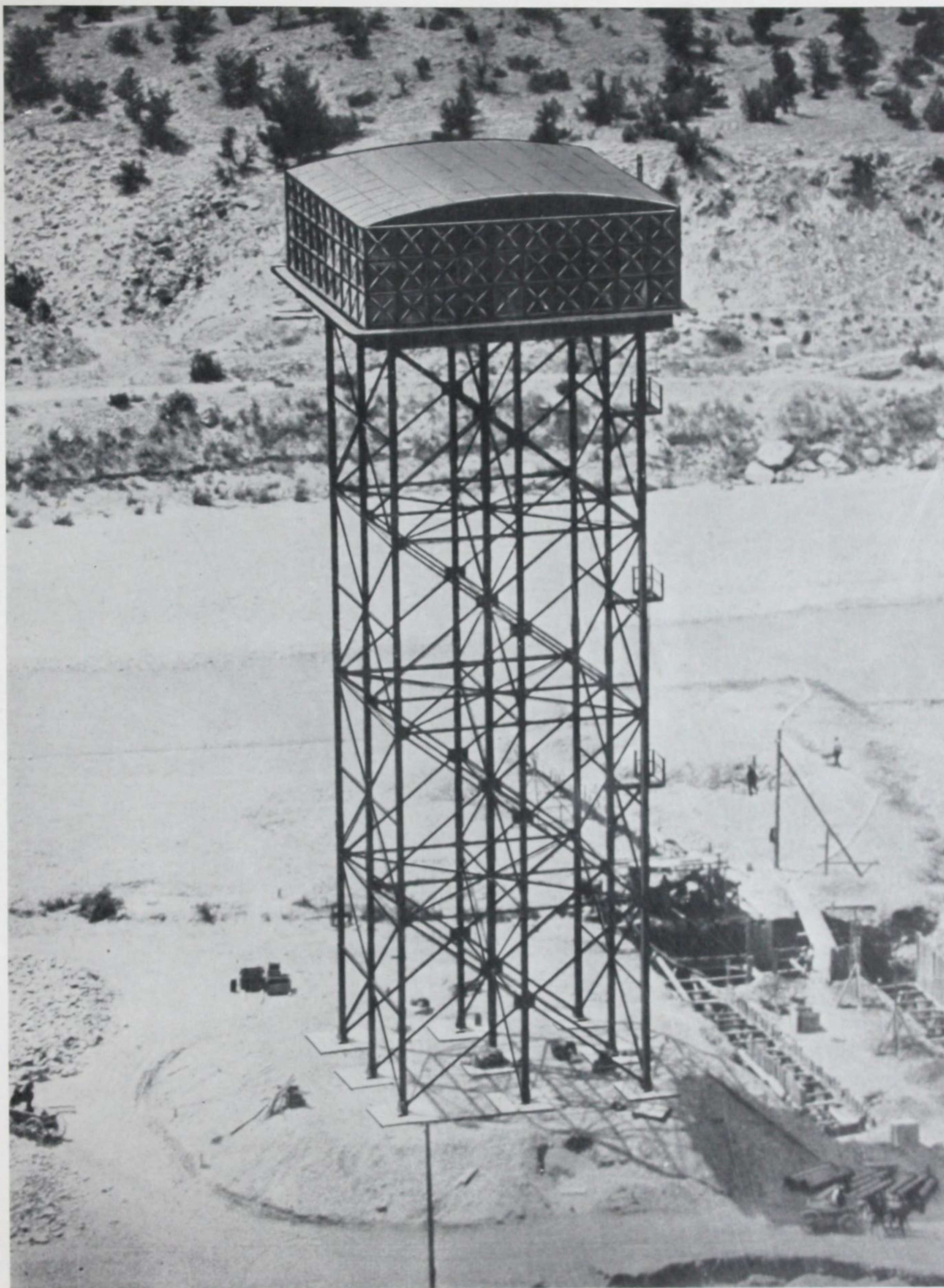
165. PRESSED STEEL TANK—KIRKEE, INDIA
264,000 gallons capacity, with supporting structure 60 feet high.



166. PRESSED STEEL TANK—HASTINGS, NEAR POONA, INDIA
48,700 gallons capacity, with supporting structure 60 feet high.



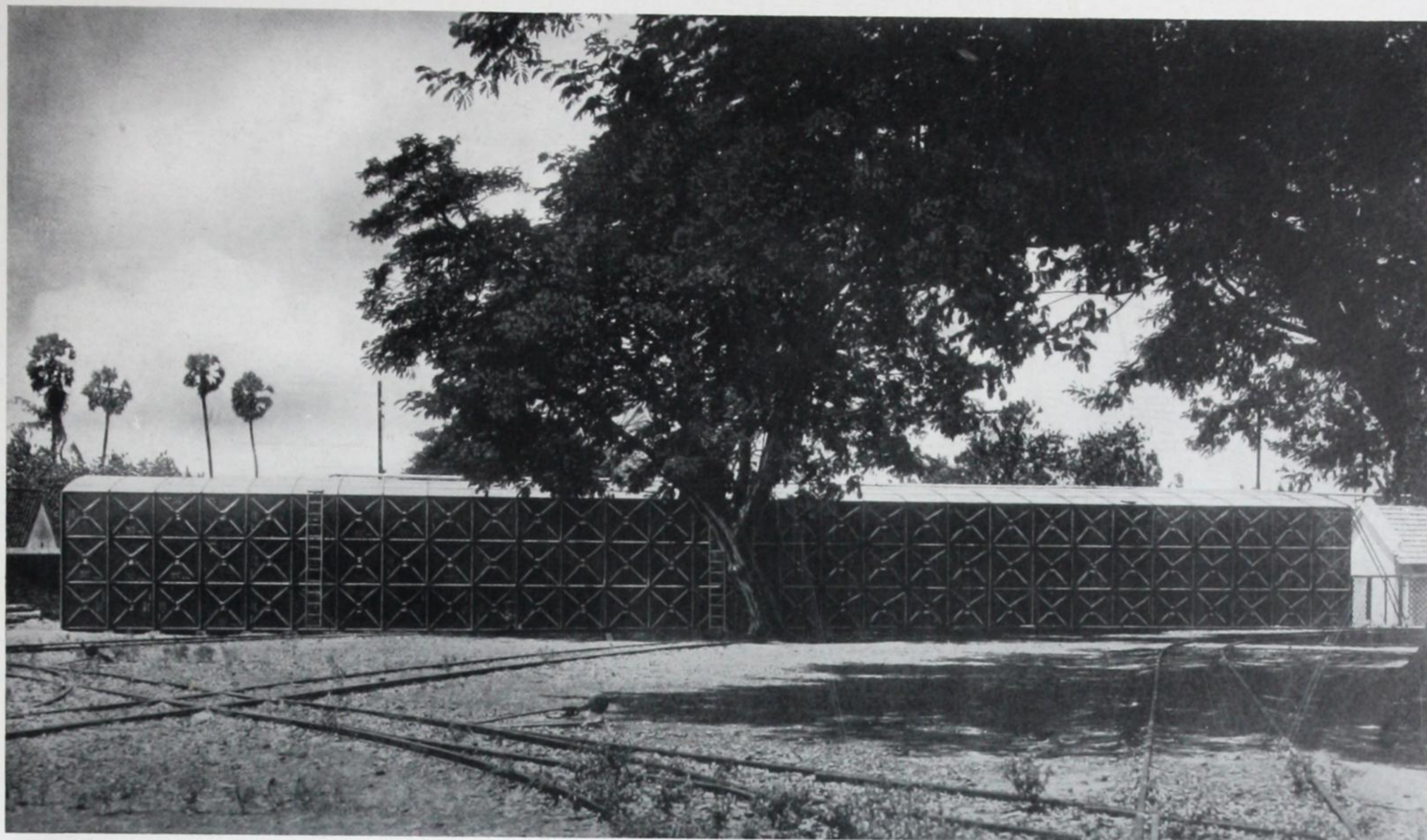
167. PRESSED STEEL TANKS AND SUPPORTING STRUCTURE 115 FEET HIGH—NEWPORT, MON., ENGLAND
The capacity of the tanks are 26,950 and 2,950 gallons respectively.



168. PRESSED STEEL TANK—KARABUK, TURKEY
120,000 gallons capacity with supporting structure 100 feet high.



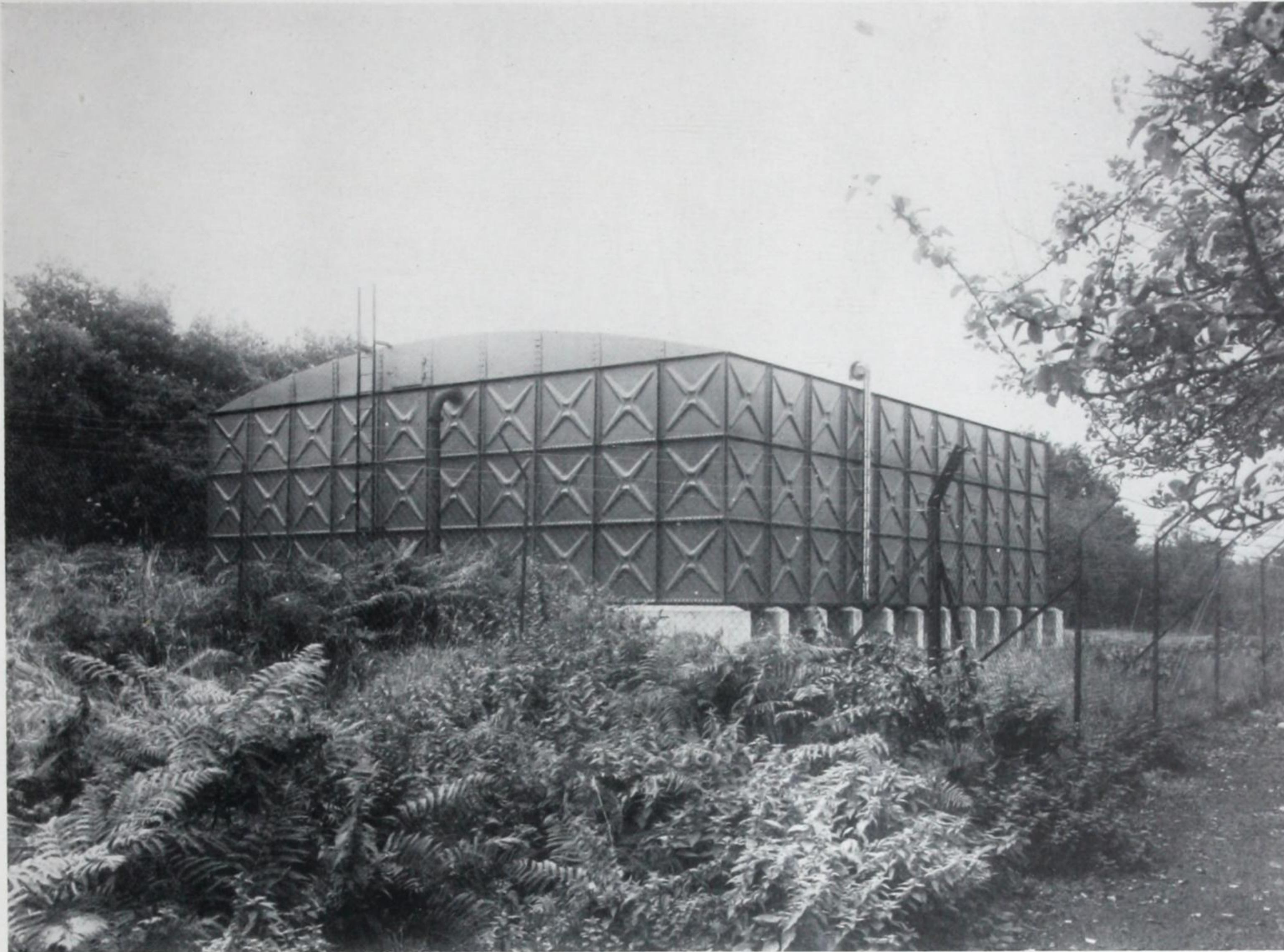
169. PRESSED STEEL TANK—TREForest, GLAMORGANSHIRE
24,000 gallons capacity, with supporting structure 60 feet high.



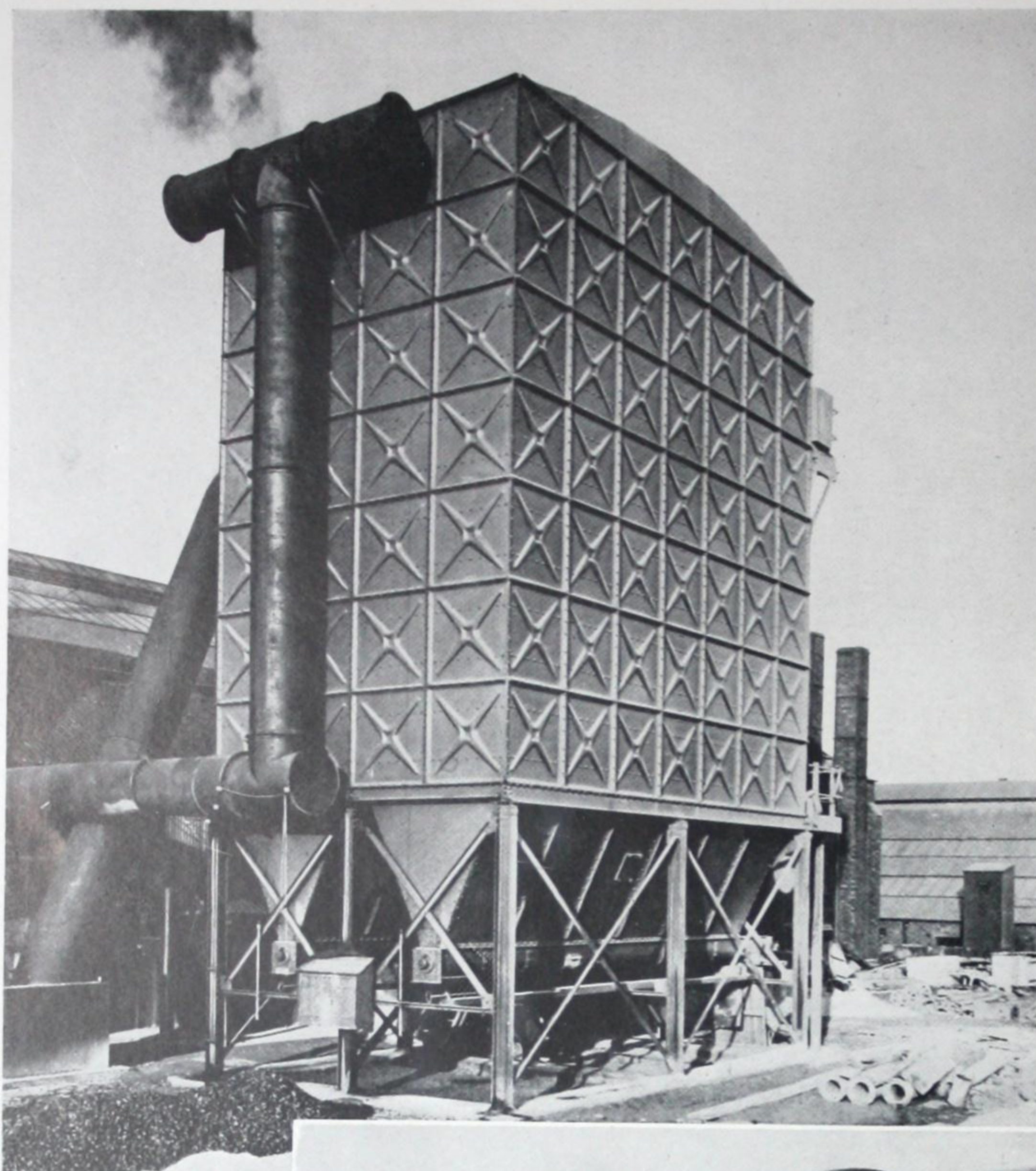
170. PRESSED STEEL TANK—MADRAS STATE, INDIA
For the storage of molasses.



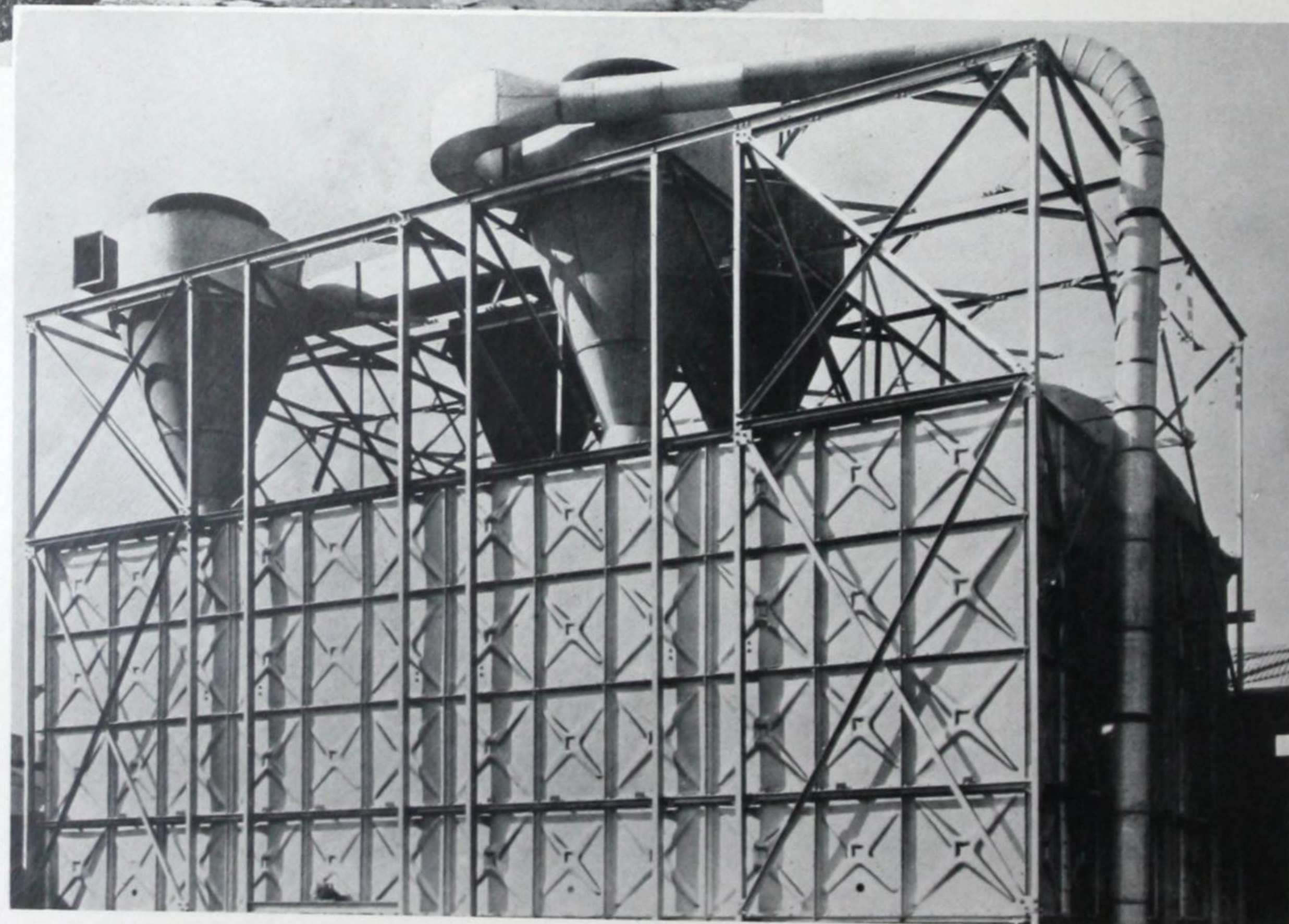
171. PRESSED STEEL TANK, 16,000 GALLONS CAPACITY
With supporting structure 54 feet high, for a rural water supply scheme in South Wales.



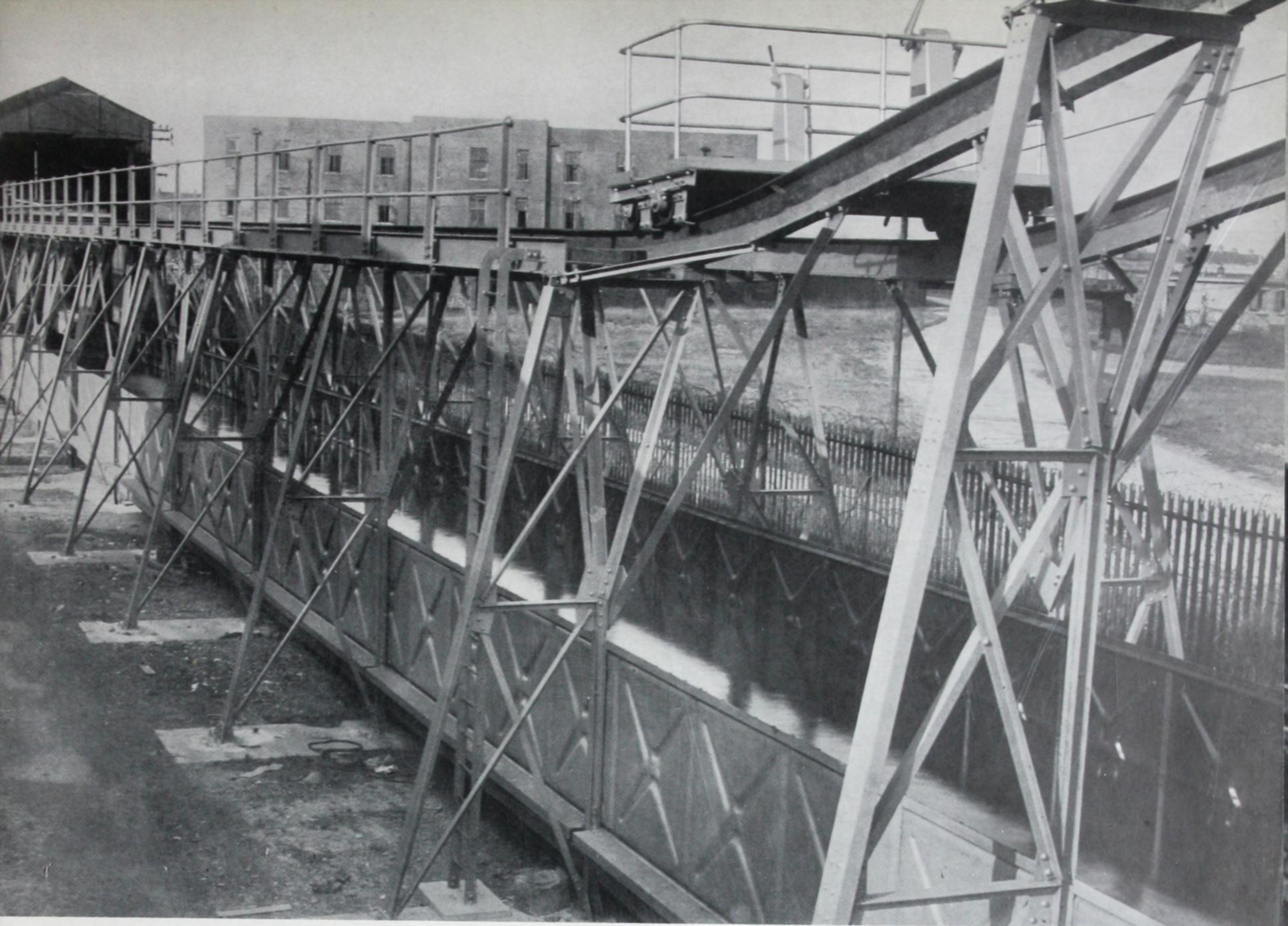
172. PRESSED STEEL TANK IN THE COUNTY BOROUGH OF NEWPORT, MON., ENGLAND
132,000 gallons capacity.



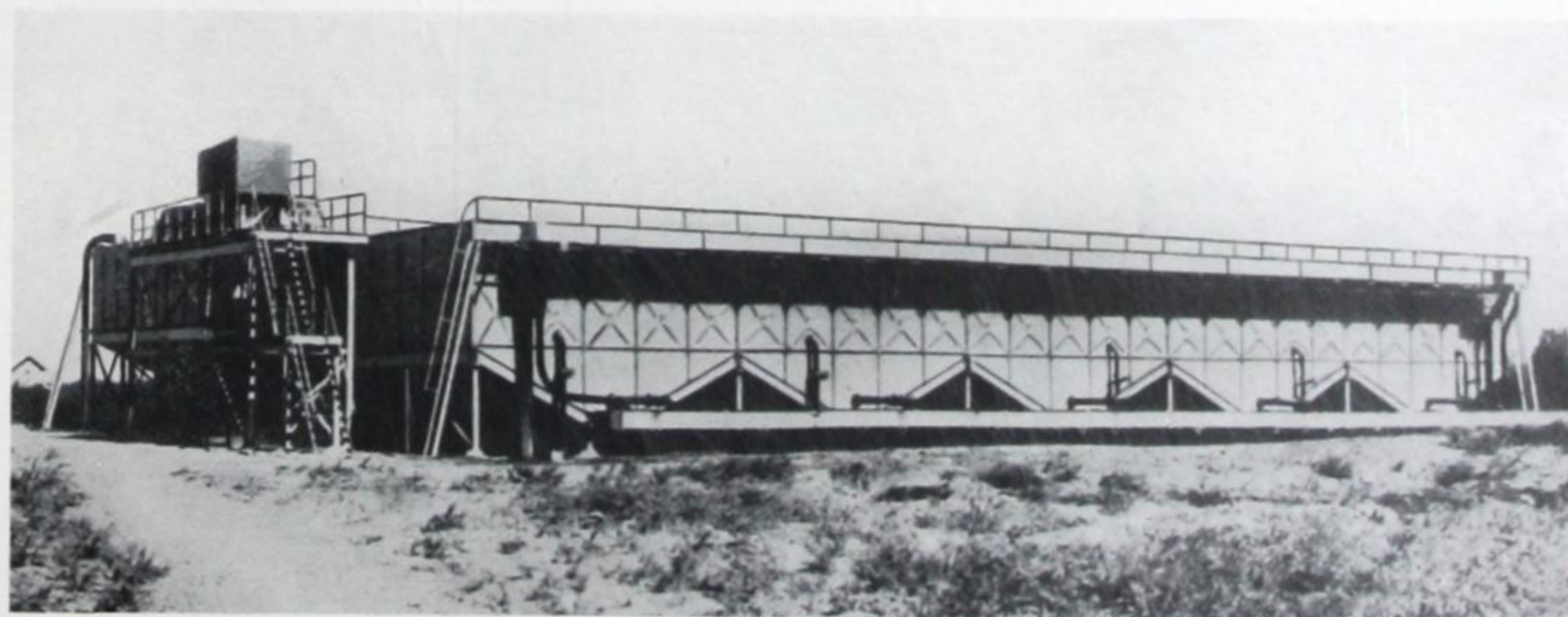
173. A BAGHOUSE BUILT OF PRESSED
STEEL TANK PLATES



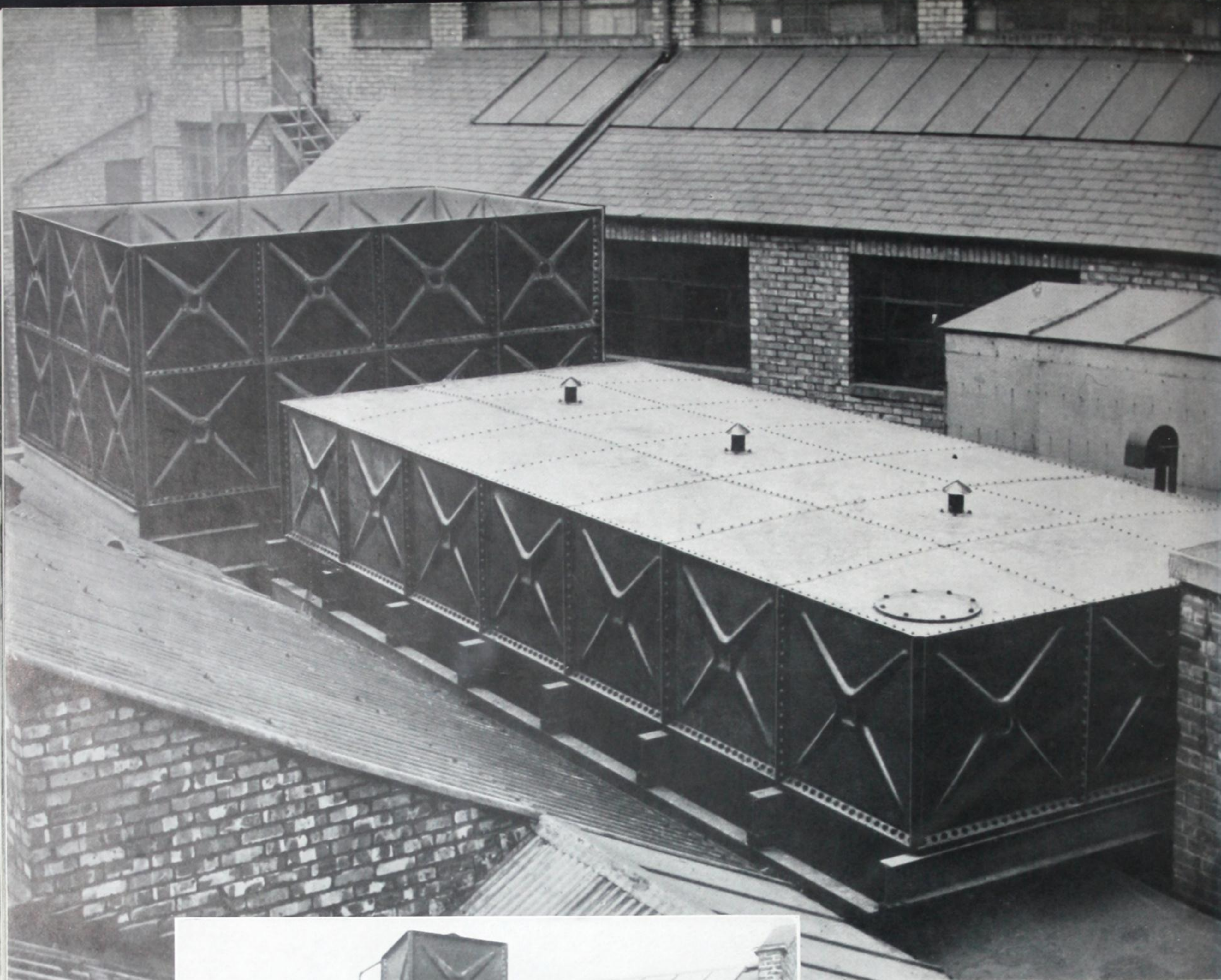
174. PRESSED STEEL TANK PLATE STORAGE INSTALLATION
for waste wood chippings and sawdust.



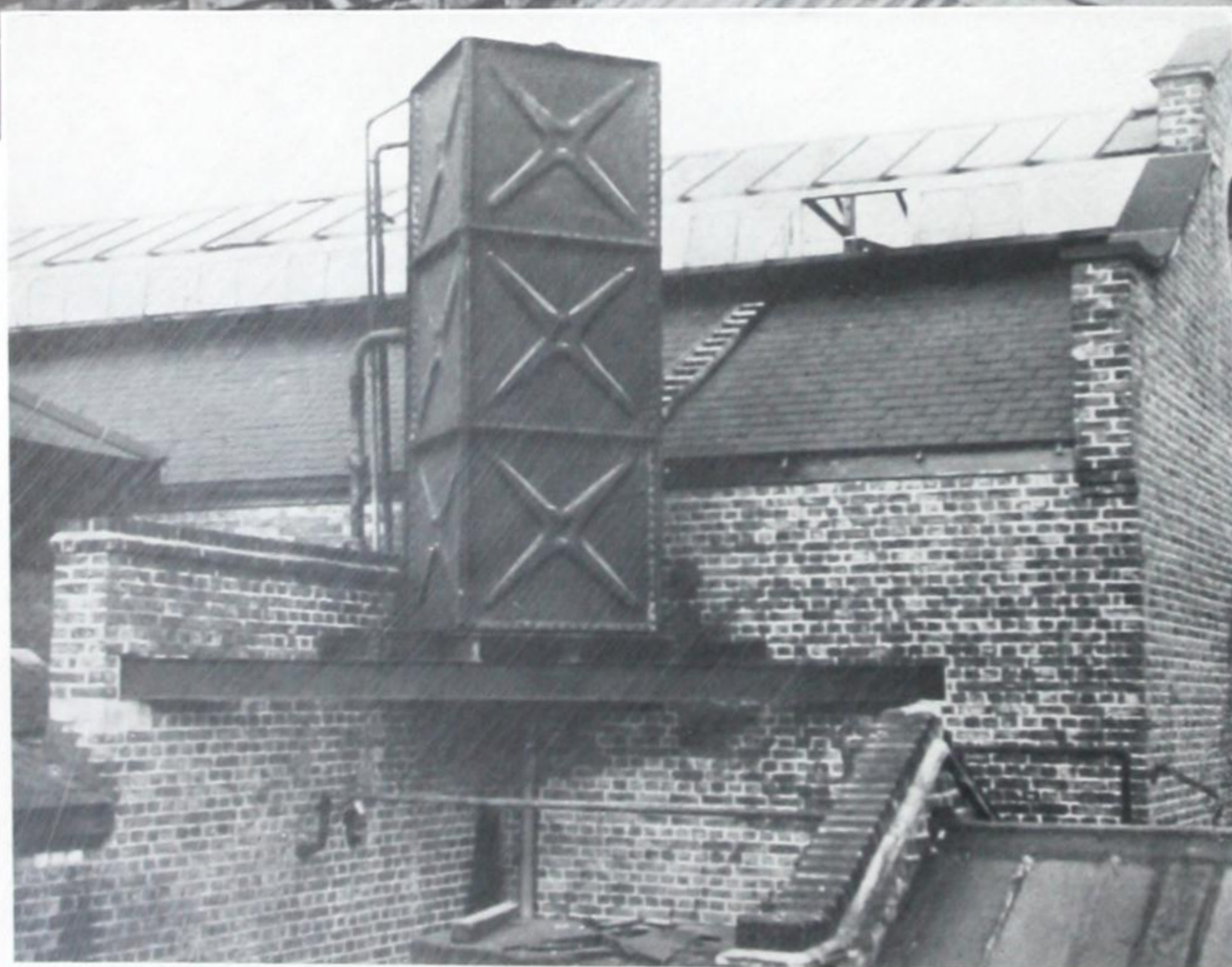
175. PRESSED STEEL TANK used in conjunction with a special structure for testing sea-plane floats and flying boat hulls.



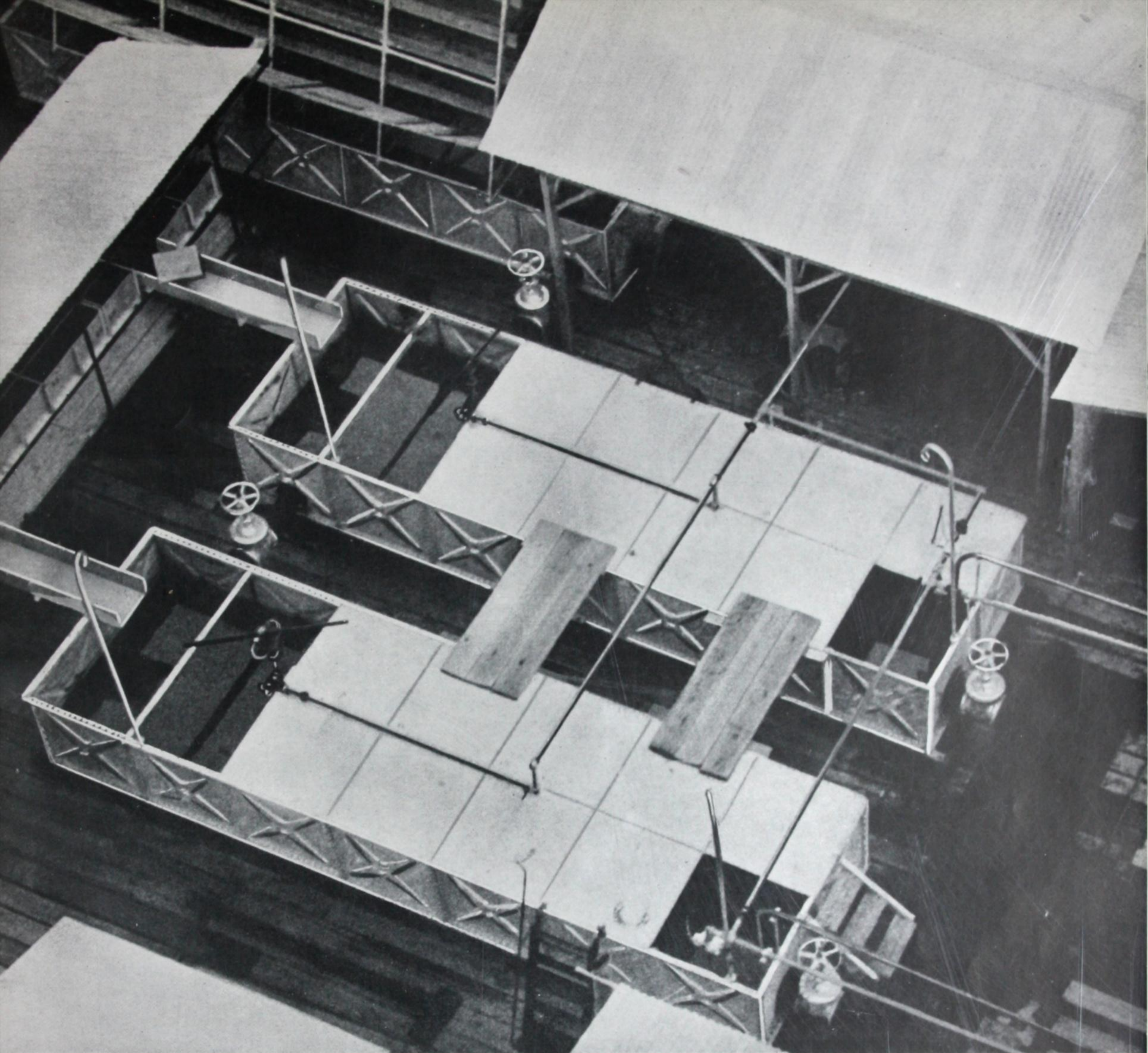
176. A WATER TREATMENT PLANT incorporating two Pressed Steel Tanks, each with five compartments and hopper bottoms of special construction.



177. PRESSED STEEL TANKS—MANCHESTER, ENGLAND, holding water and oil, erected in a confined space.



178. The adaptability of Pressed Steel Tanks to limited spaces is shown at this laundry in London.



179. PRESSED STEEL TANKS incorporated in the mud cooling and storage plant on an oil field in Sarawak.

[BLANK PAGE]



CCA

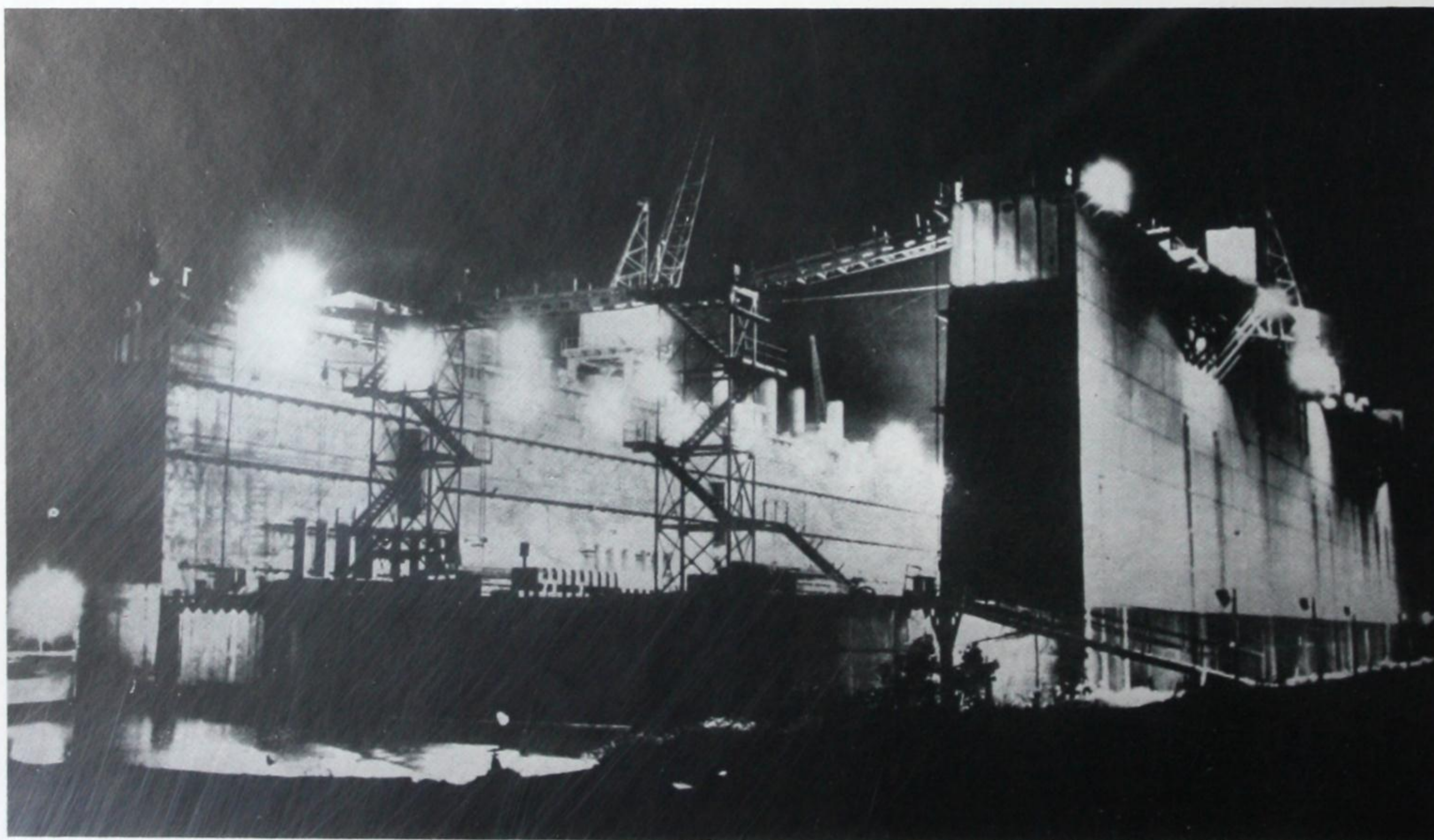


WORLD WAR II

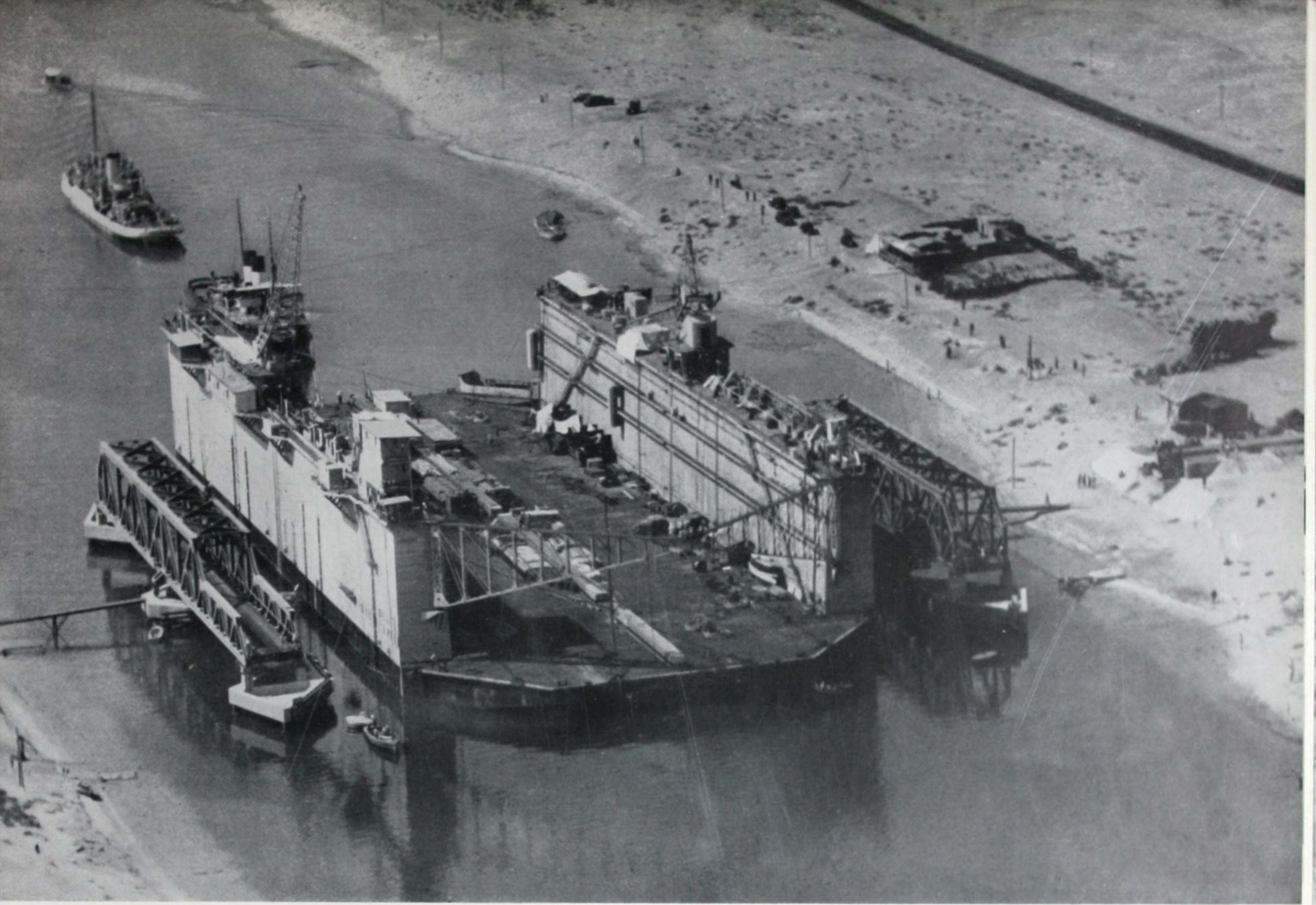
1939-1945



180. ADMIRALTY DOCK
Centre Section passing through El Ferdan Swing Bridge, Suez Canal.

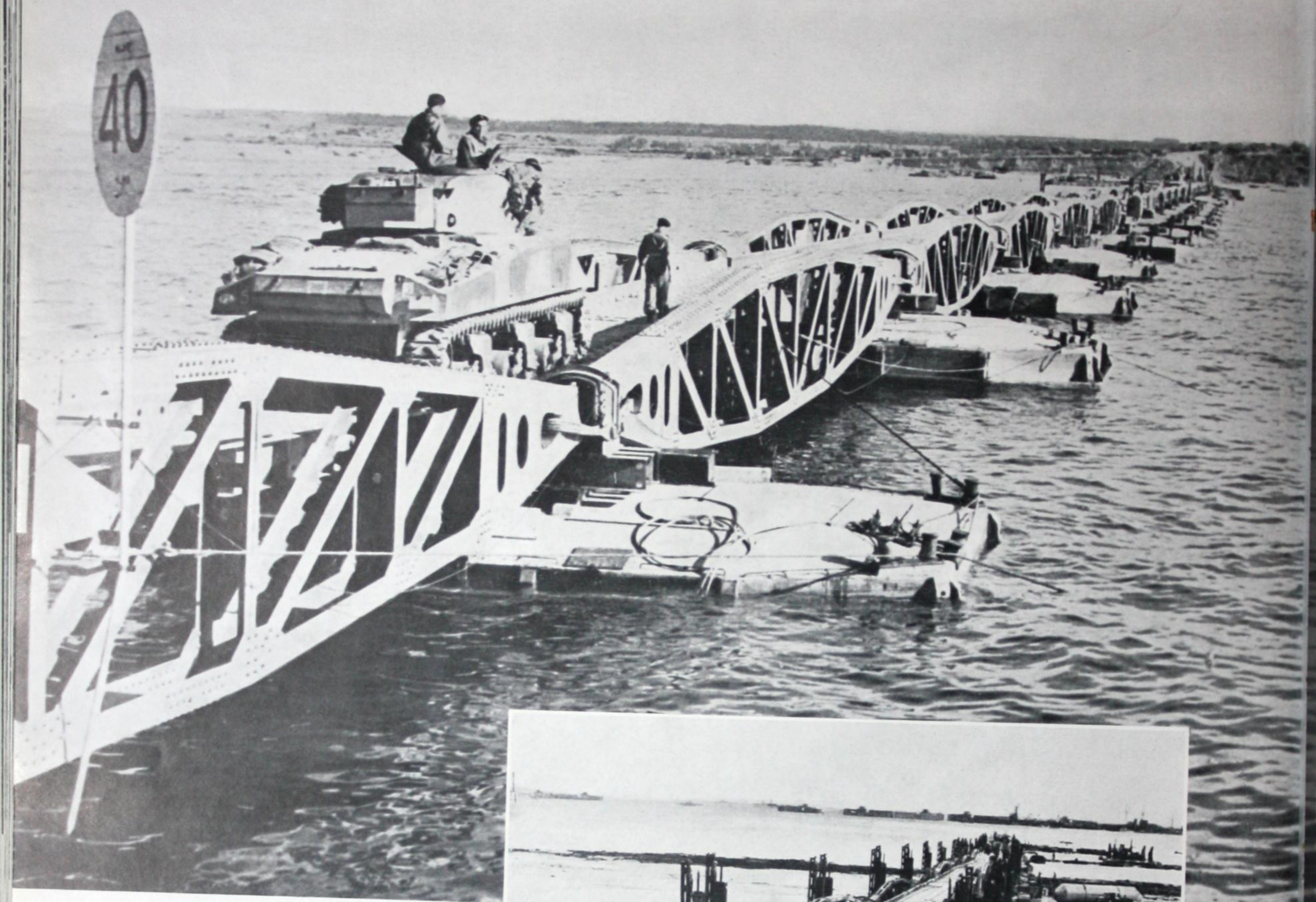


181. ADMIRALTY DOCK
A night photograph of the Dock under construction.



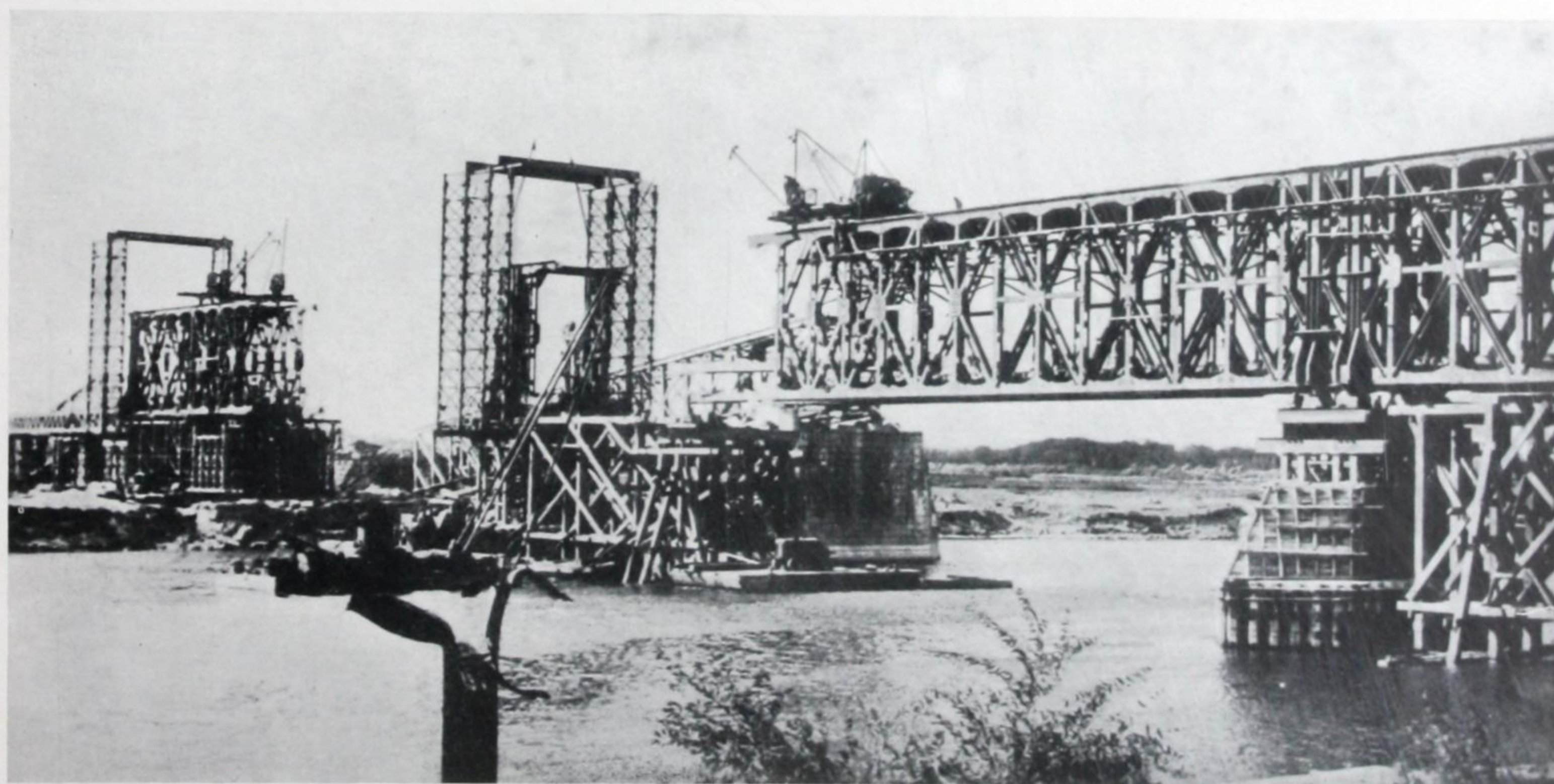
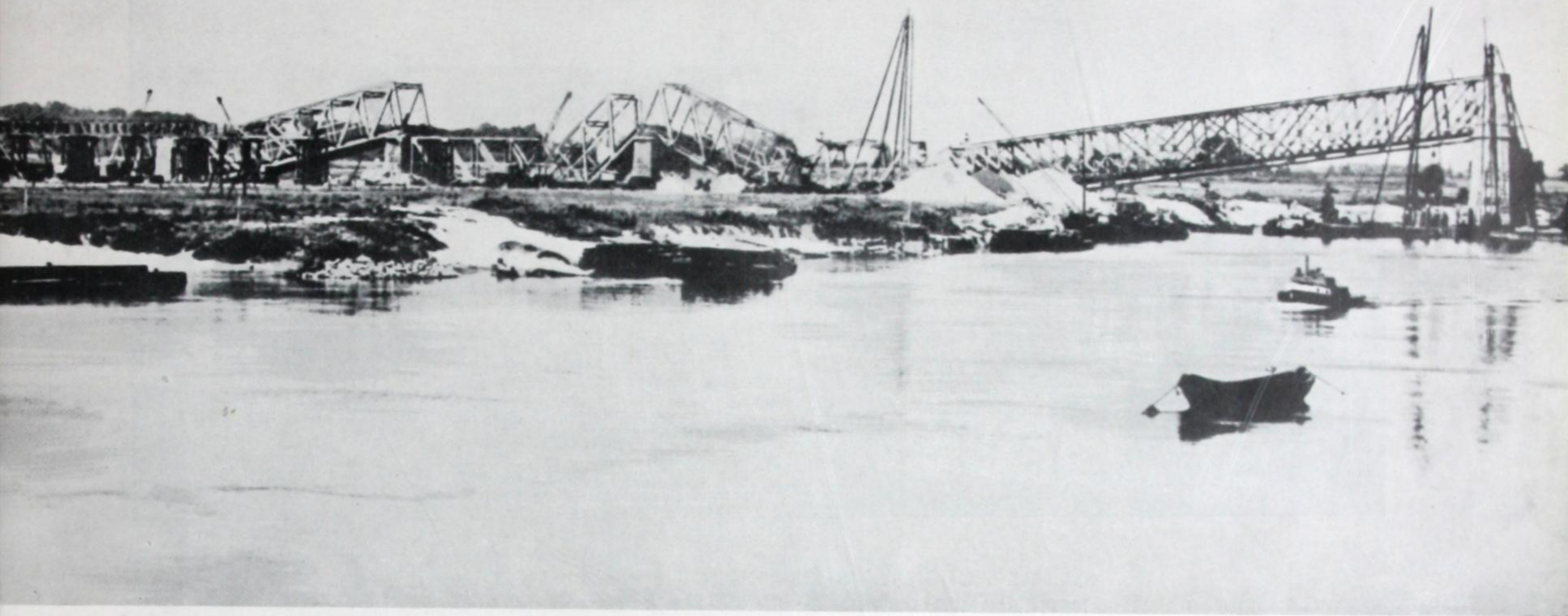
182. ADMIRALTY DOCK

A section of the Dock passing through Suez Canal. This and several other floating docks were built in Bombay by the Braithwaite, Burn and Jessop Construction Co. Ltd.



183. "WHALE" FLEXIBLE BRIDGE APPROACH
TO "PHOENIX" PIER HEAD.
Normandy beaches following D day, 1945.

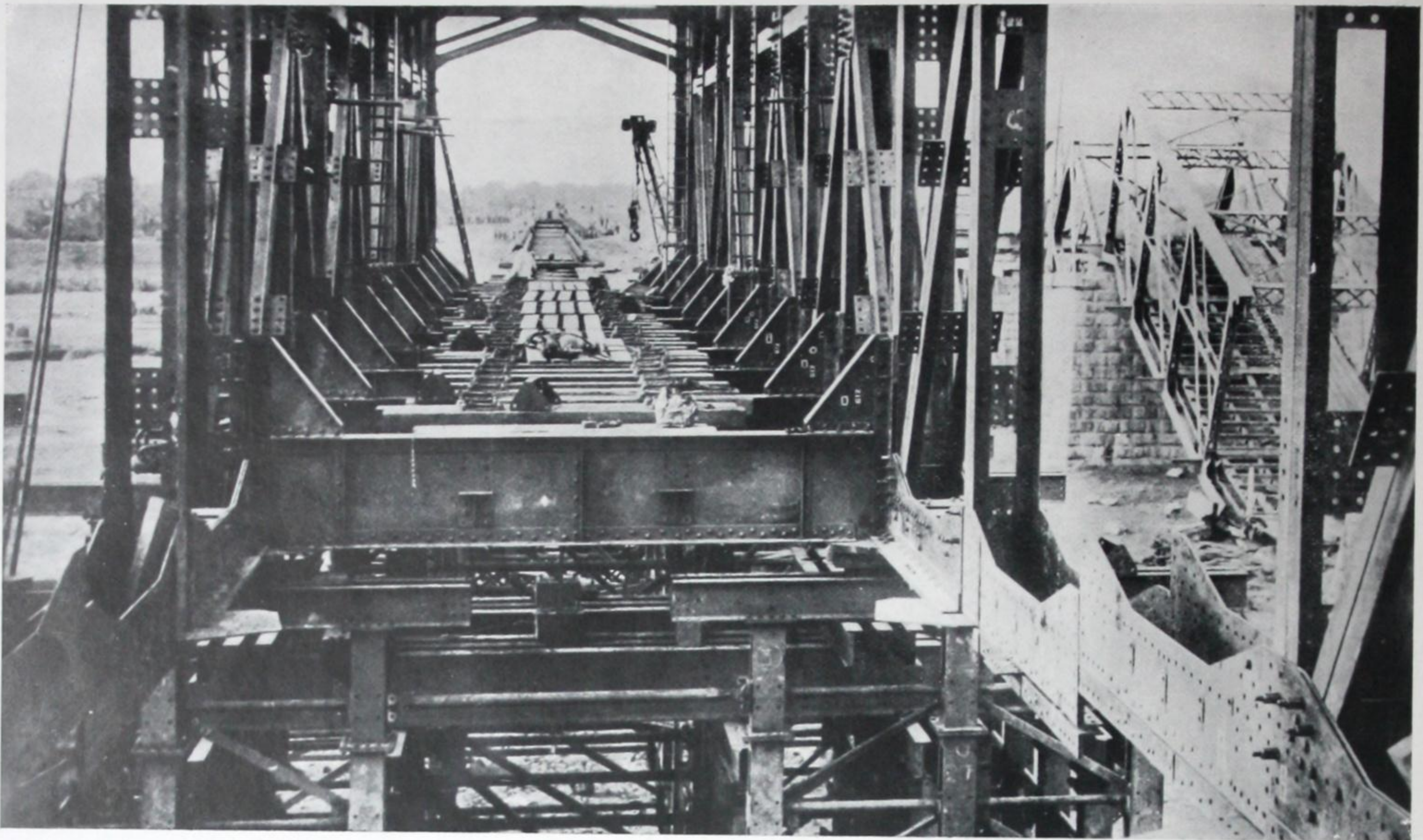




184. MILITARY BRIDGE OVER RIVER IJSSEL—DEVENTER, HOLLAND

Top: Original Bridge after demolition by enemy.

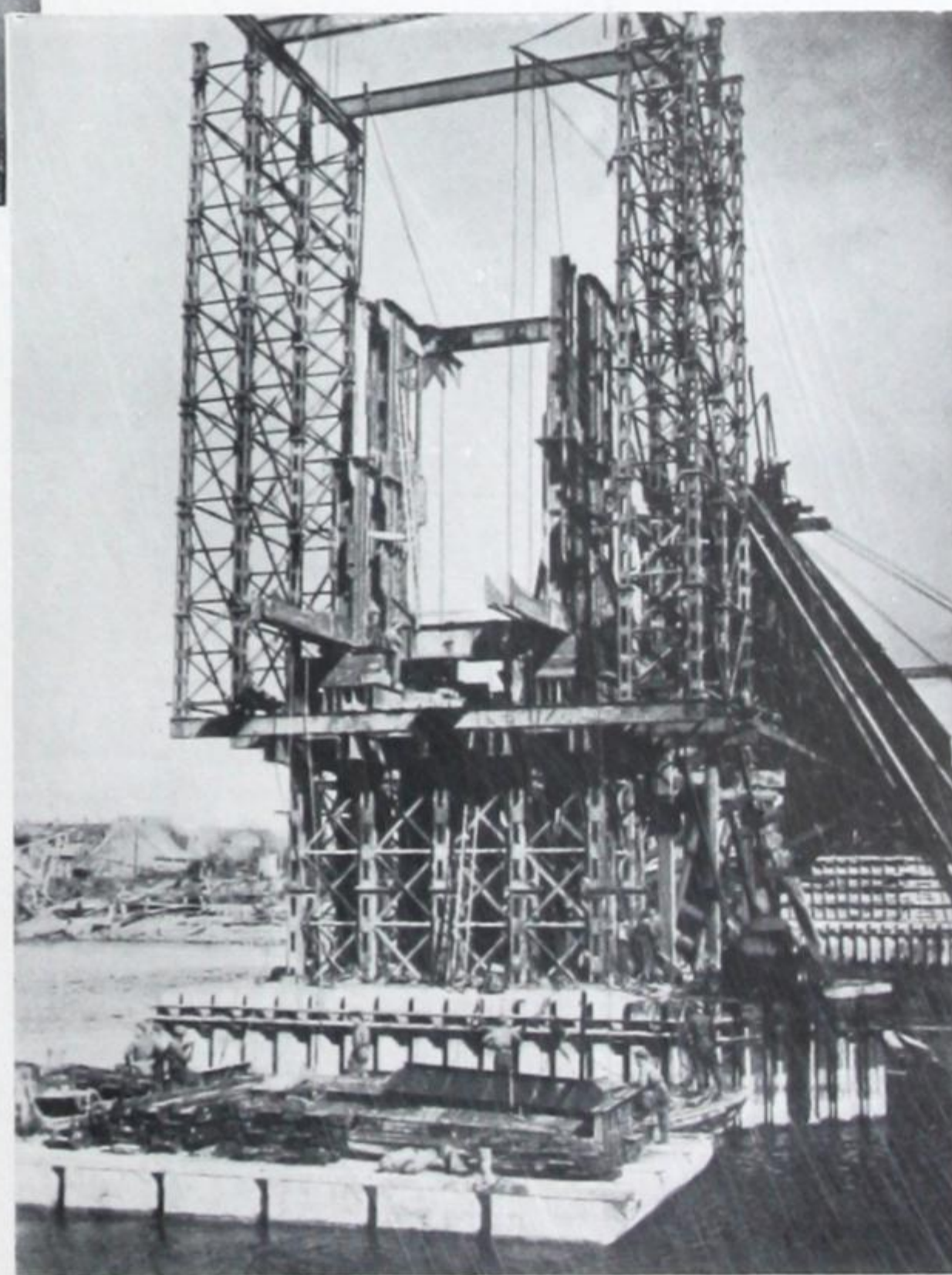
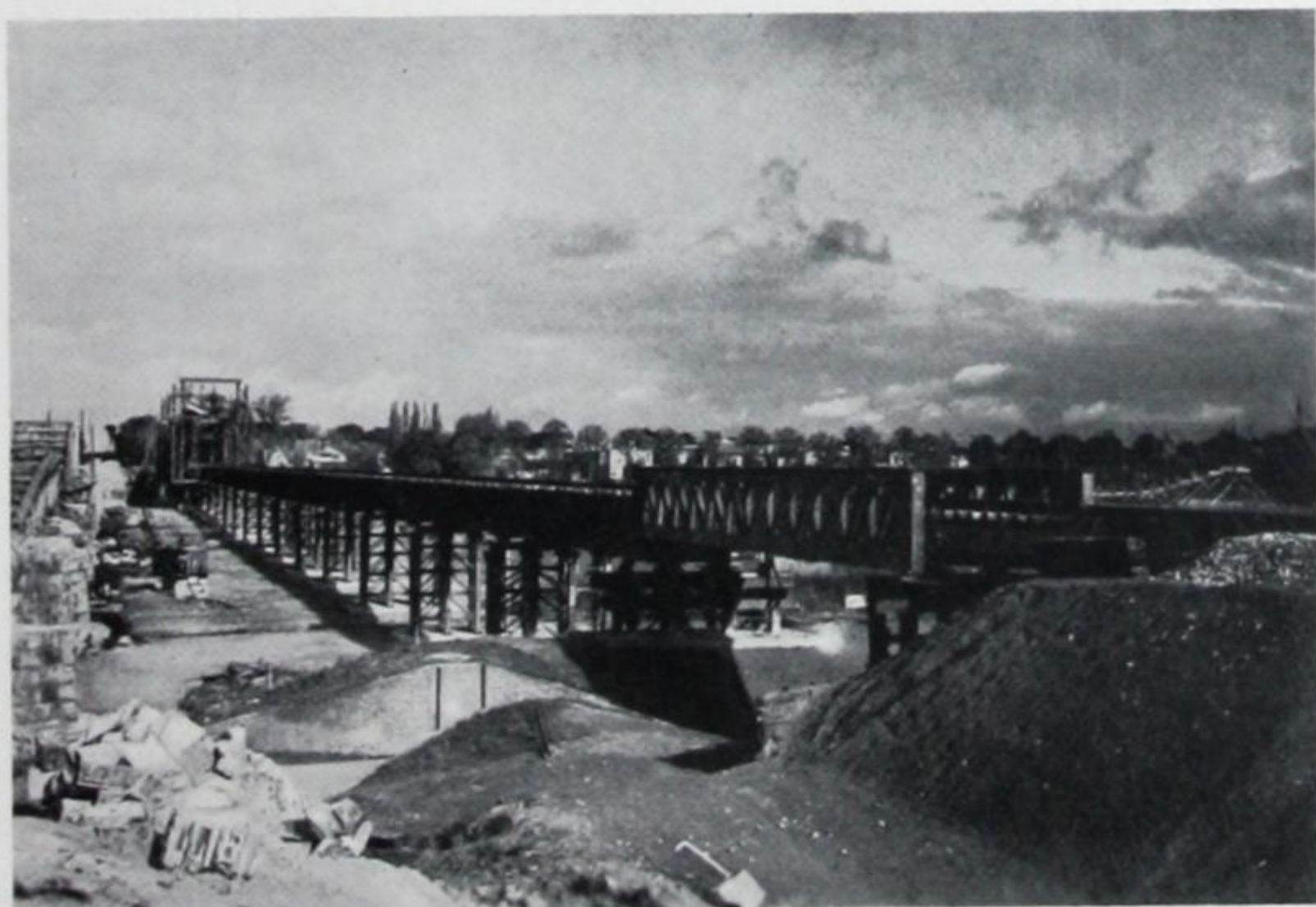
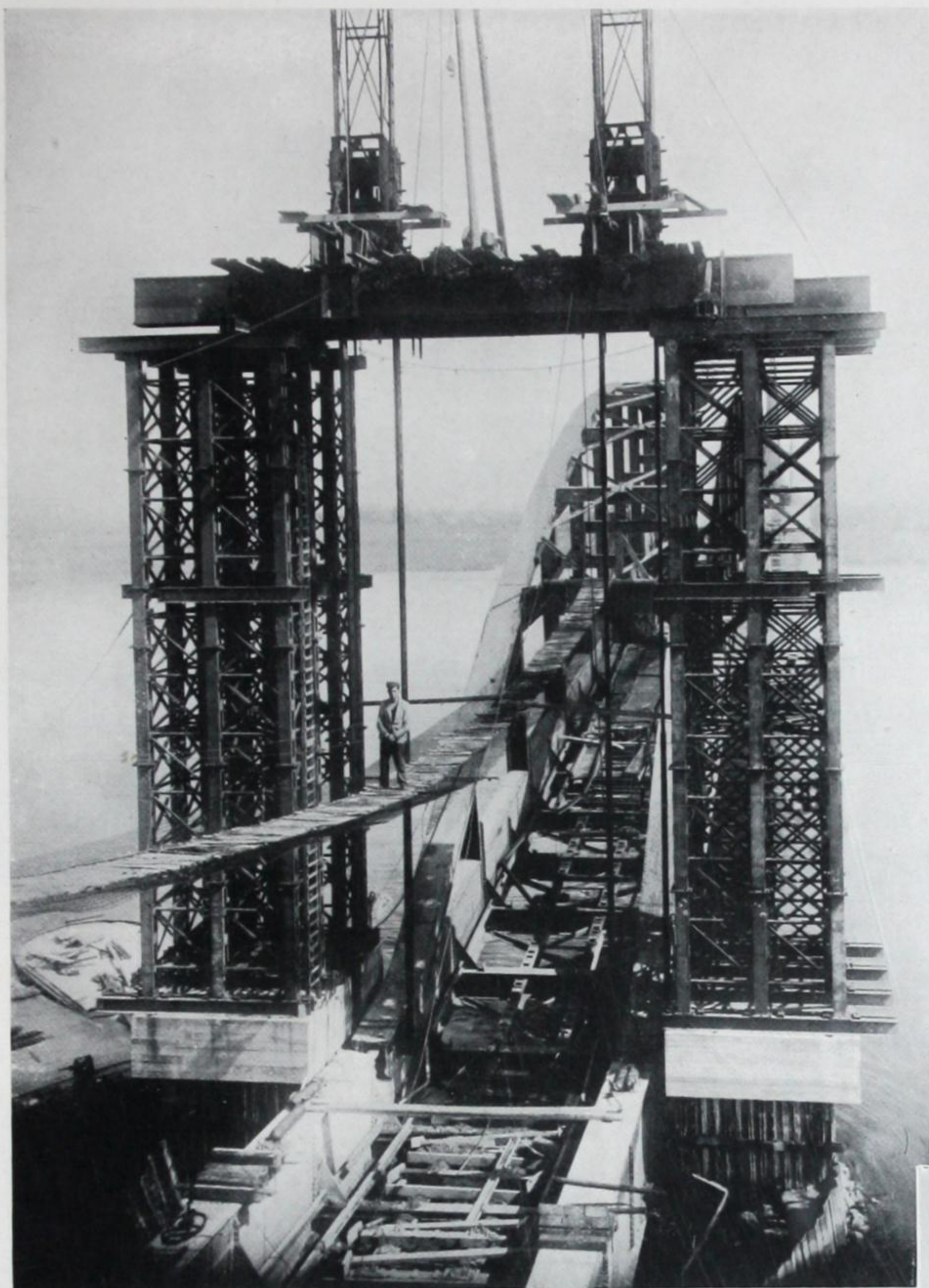
Below: EVERALL SECTIONAL TRUSS BRIDGE REPLACING THE ORIGINAL
Second and Third Spans (each 230 feet) under construction.



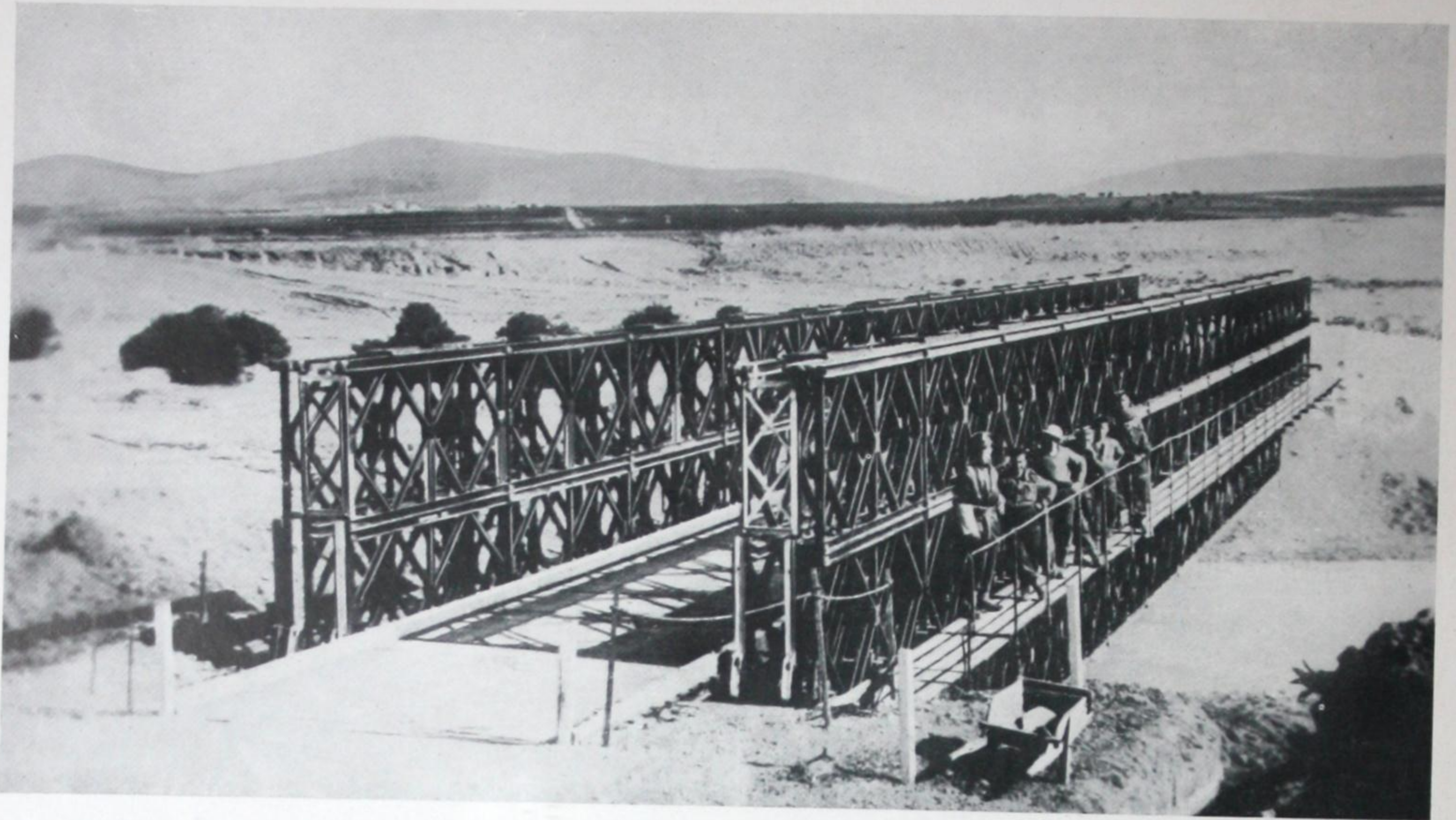
185. EVERALL SECTIONAL TRUSS BRIDGE OVER RIVER IJSSEL, DEVENTER—
NETHERLANDS, View through bridge as third span nears completion.



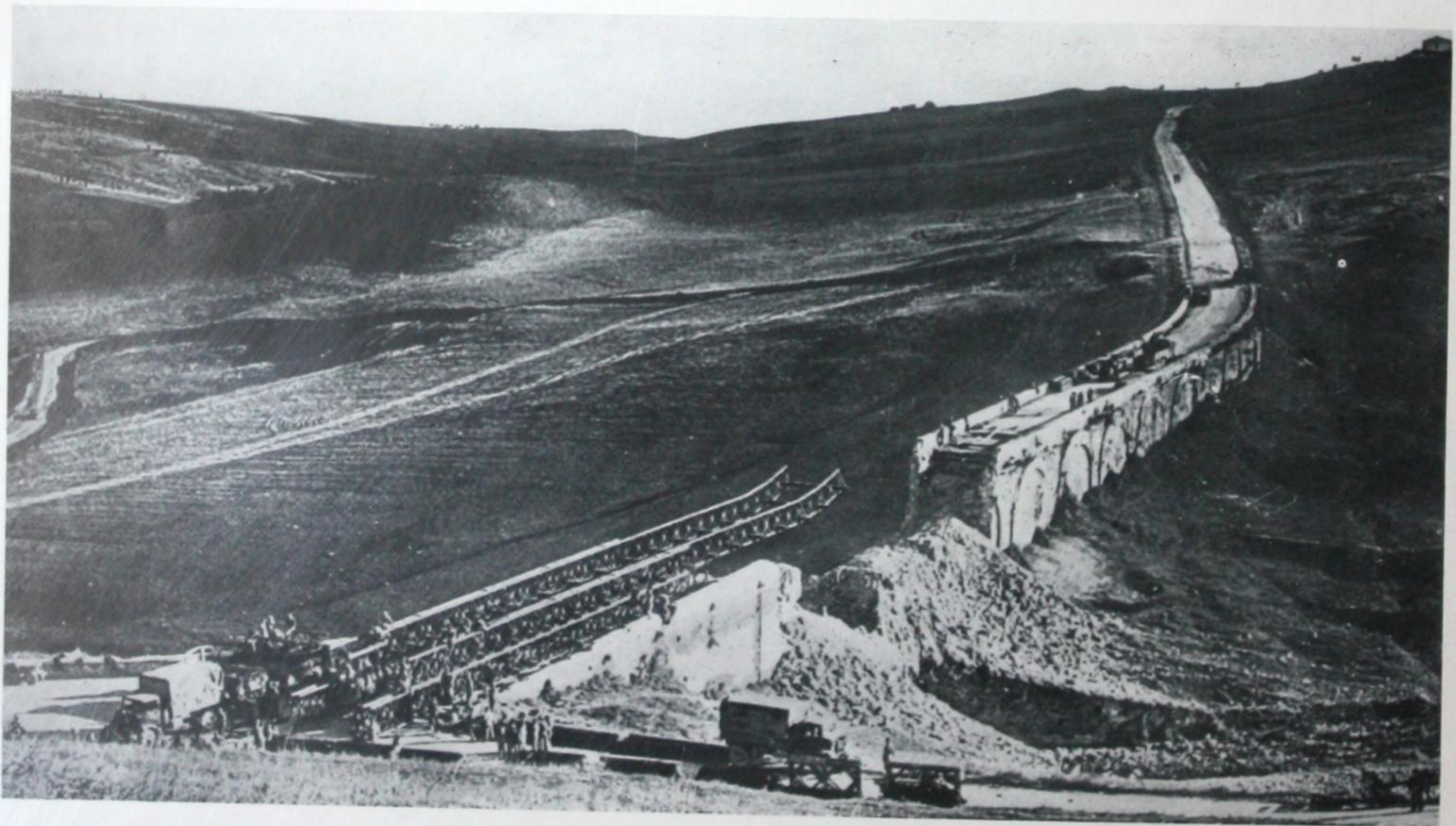
186. EVERALL SECTIONAL TRUSS BRIDGE OVER RIVER IJSSEL, DEVENTER—
NETHERLANDS, Lowering a chord unit into position.



187. REPAIRS TO RAILWAY BRIDGE OVER RIVER WAAL, NIJMEGEN, NETHERLANDS
A close-up of the lifting towers taken after the span had been lifted sufficiently to allow the damaged box girder to be cut completely away above water level.



188. A BAILEY BRIDGE ACROSS THE TESSA RIVER—ITALY



189. A BAILEY BRIDGE DURING CONSTRUCTION OVER A GAP IN A ROAD IN ITALY

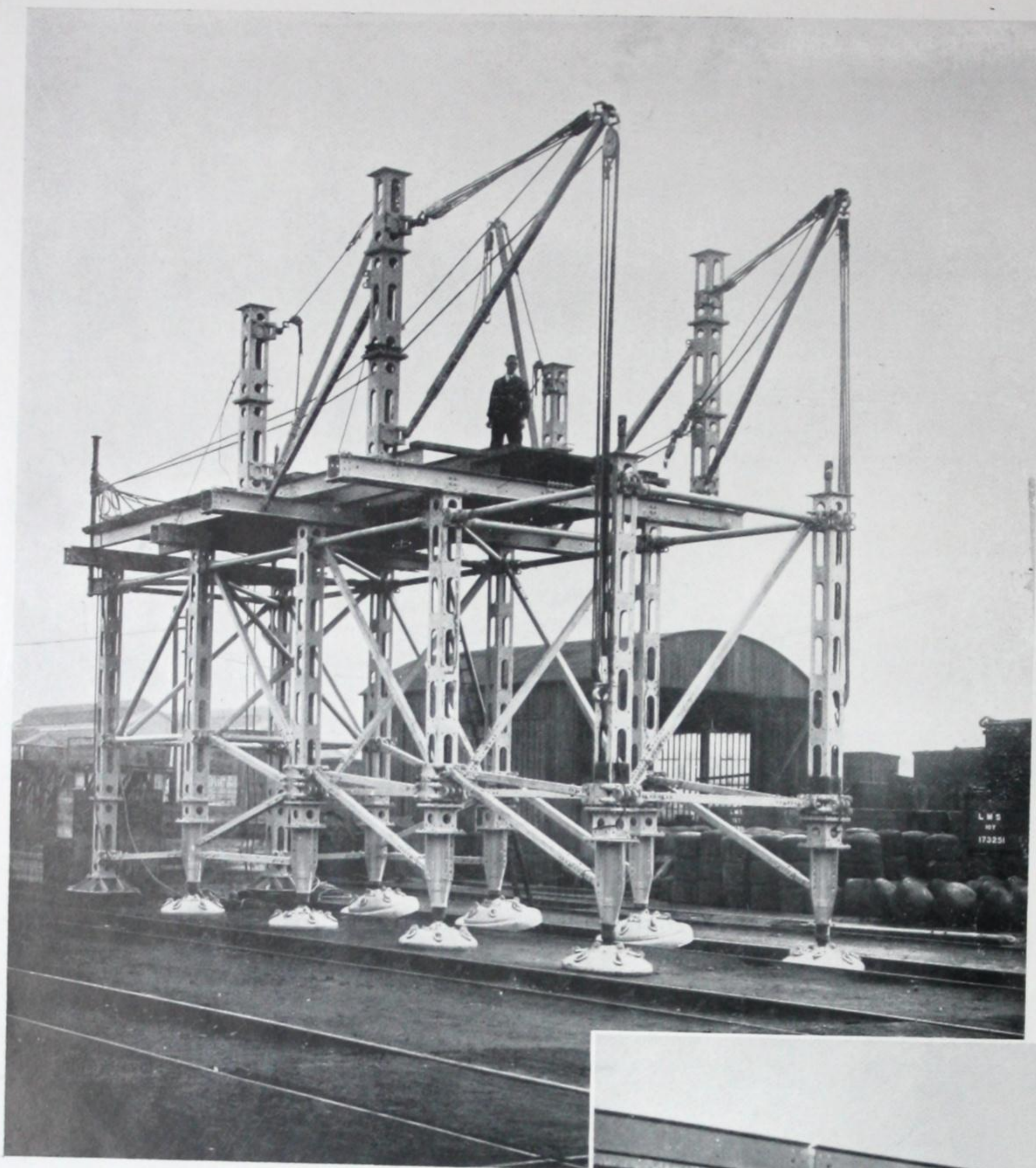


190. MARK II BOX GIRDER BRIDGE BEING LAUNCHED

Above: Launching a girder.

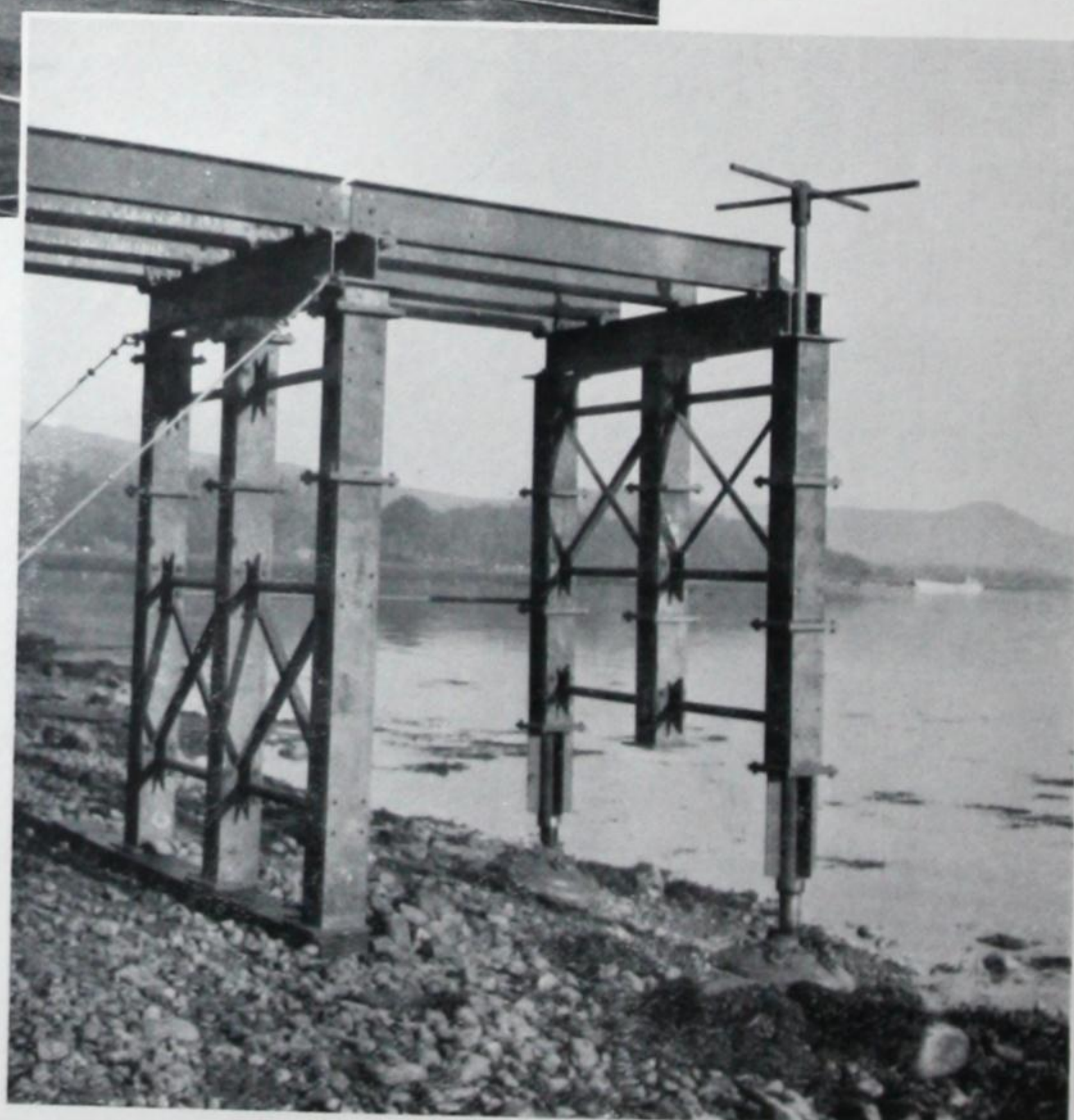
Below: The Bridge in use.



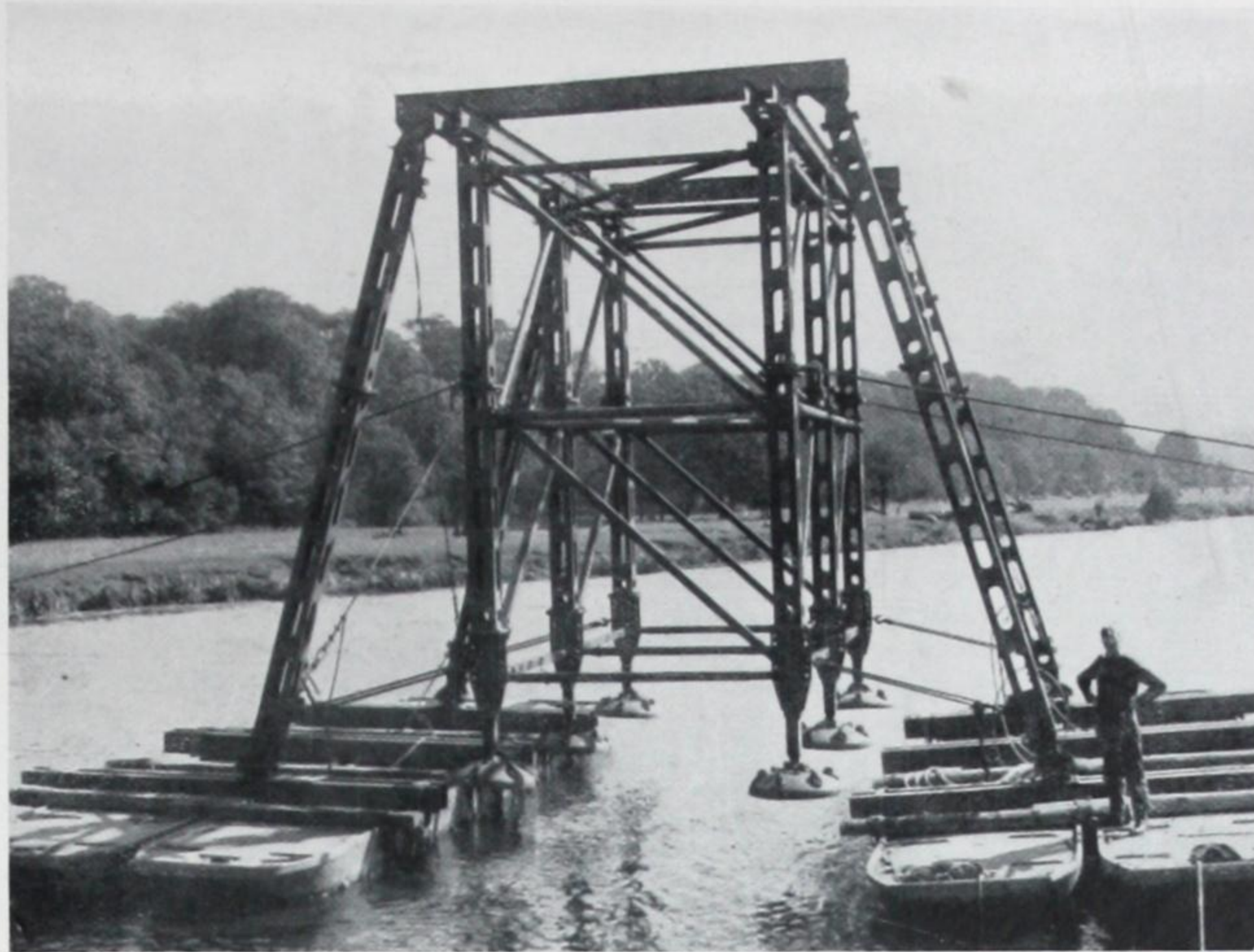


191. "V" TYPE TRESTLE PIERS

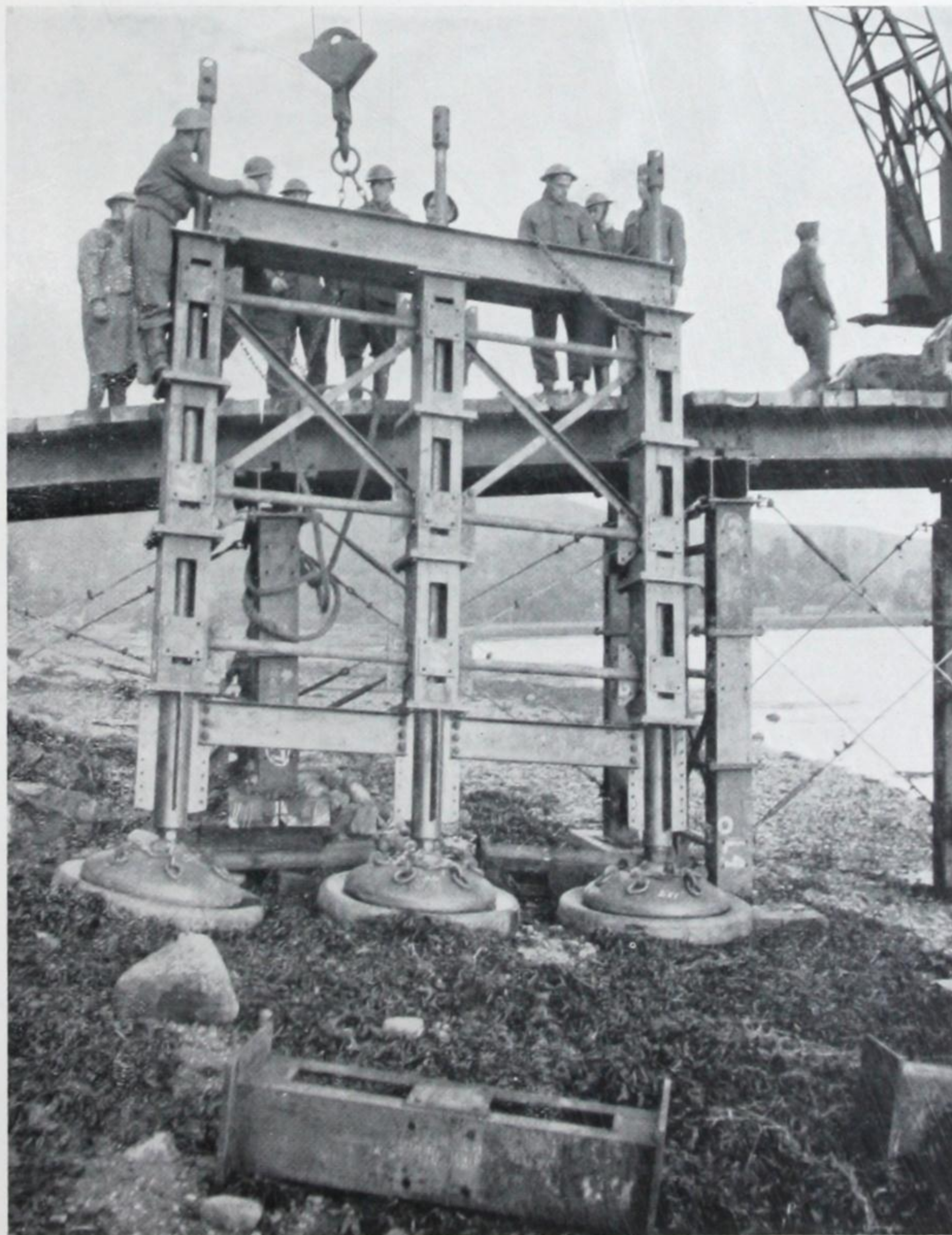
Trestle Bent assembled ready for placing.
Note "Camel foot" base designed to overcome
irregularities of foundation level.



192. Centre "Camel Foot" removed for further tests at site.



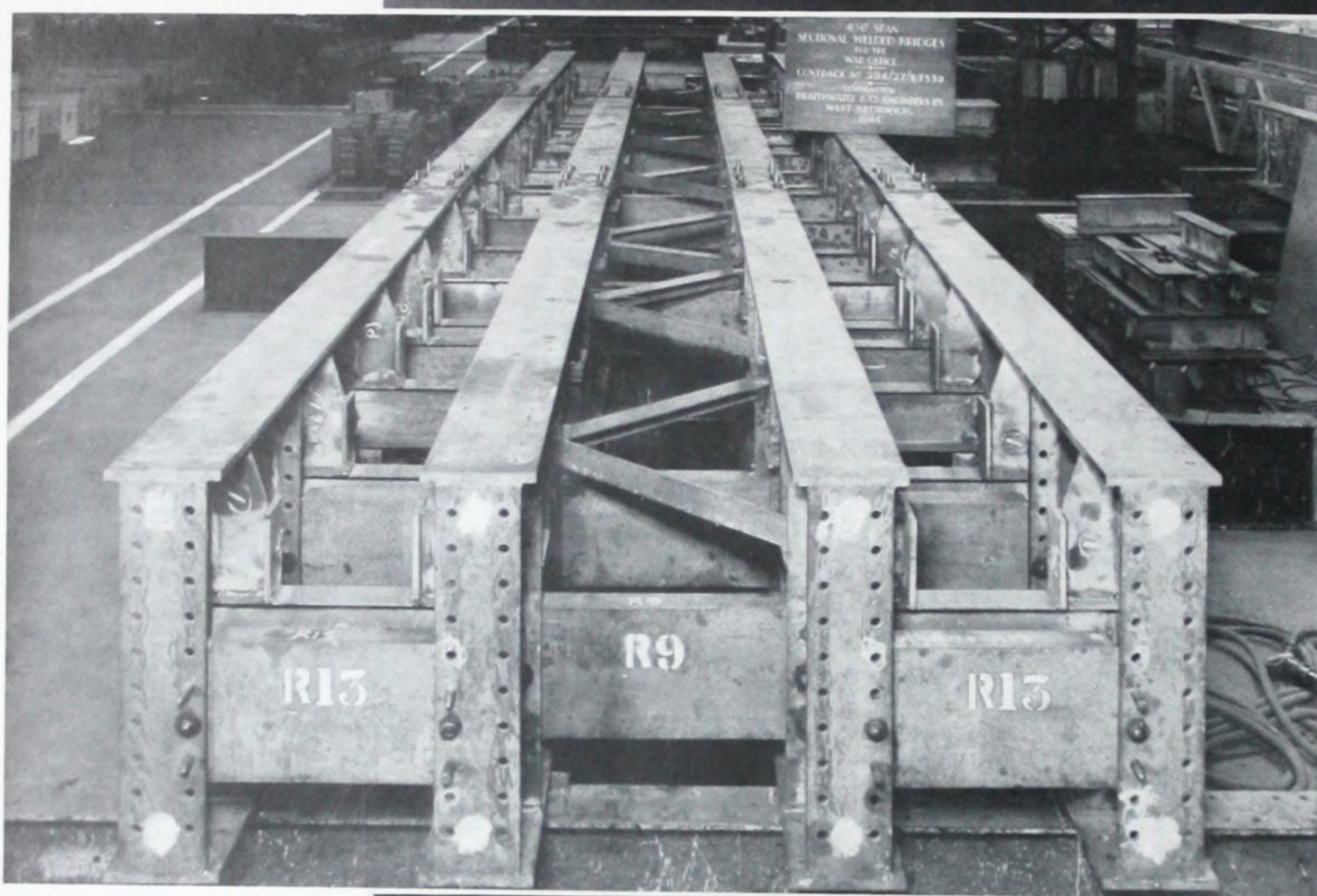
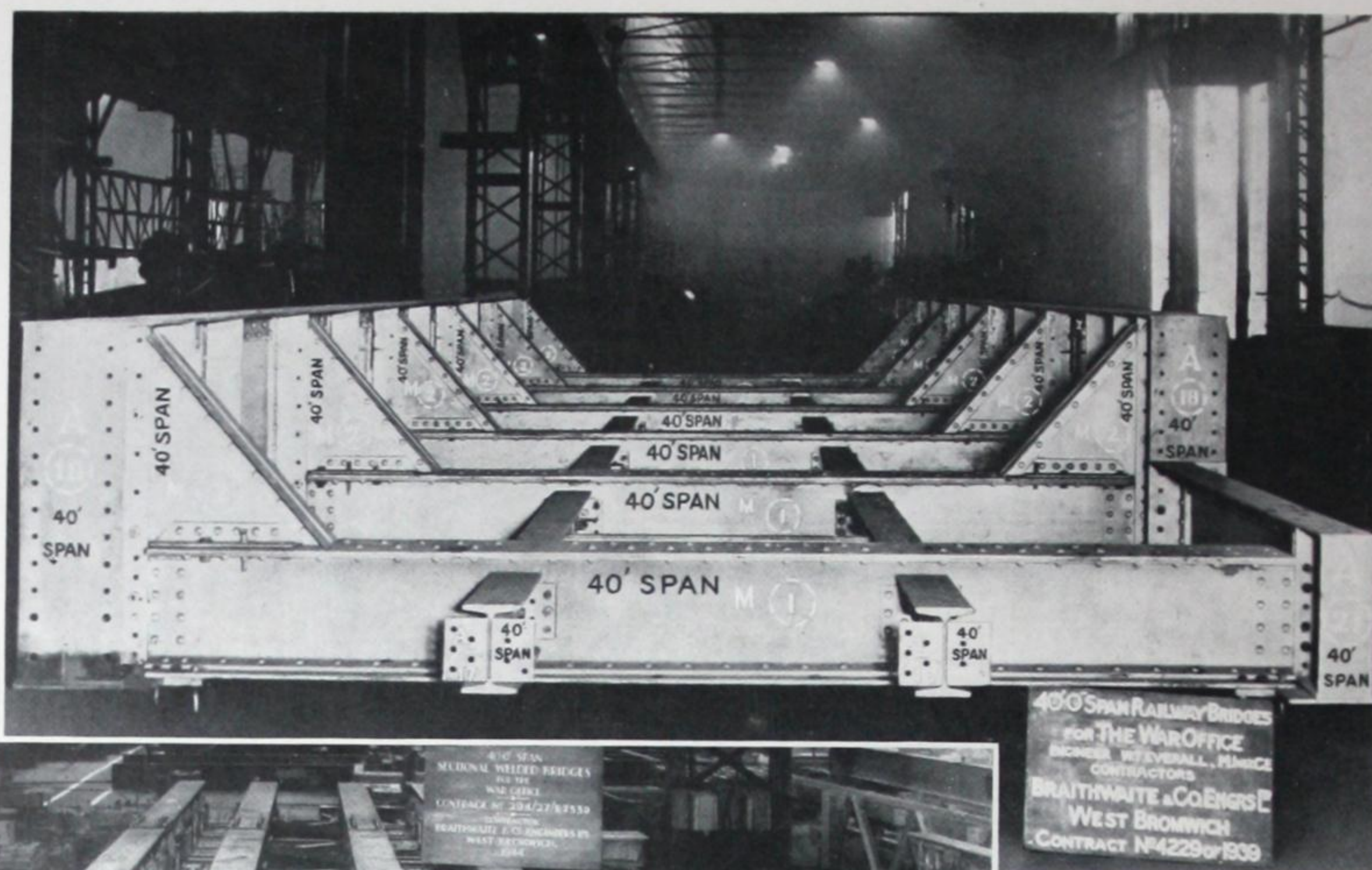
193. Lower section of bridge trestle before positioning.



194. A section of trestle ready for launching. Note the jacks passing through the columns for adjusting the level of "Camel foot" bases.

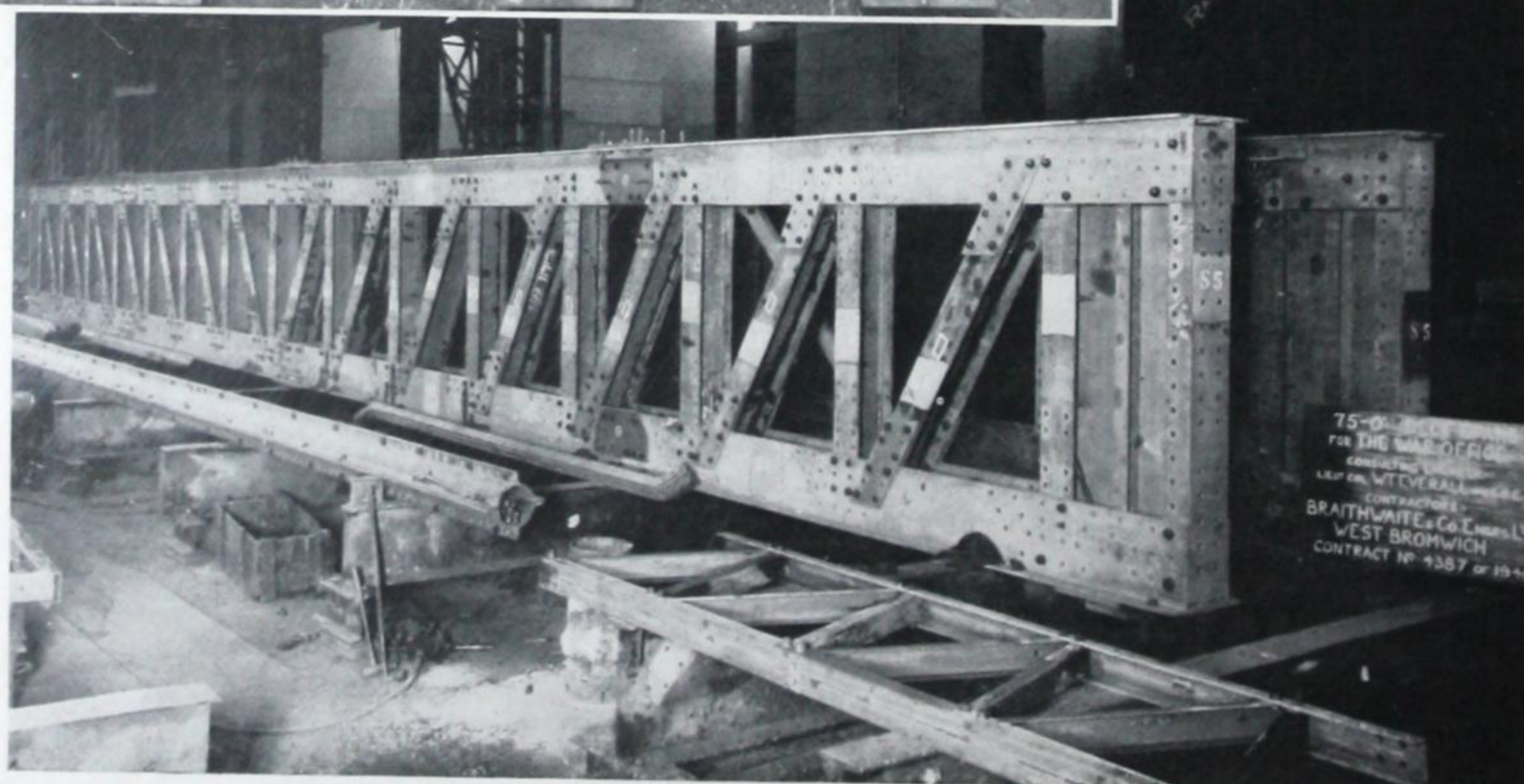
195. EMERGENCY REPLACEMENT
BRIDGES

196. A riveted bridge.
40-ft. span.

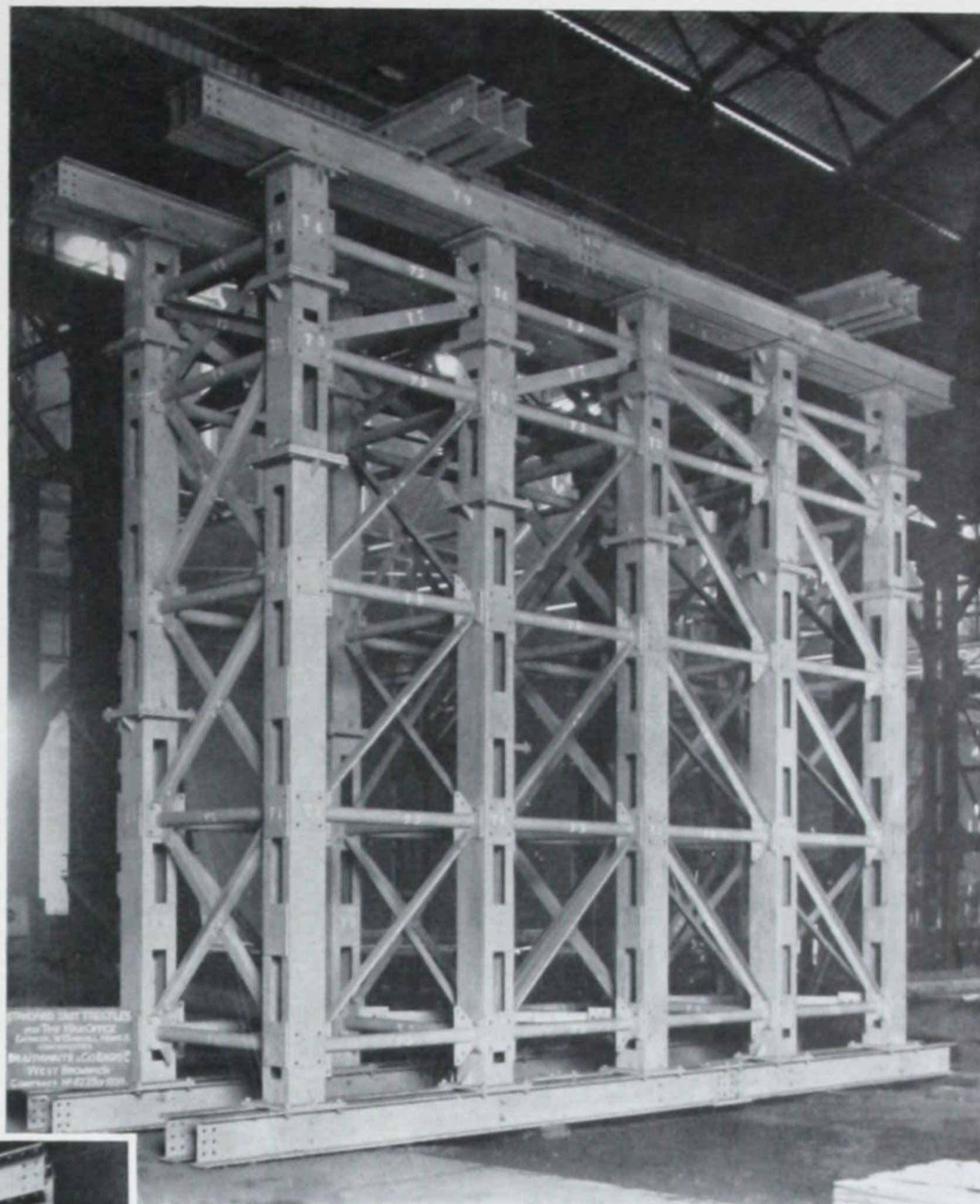


197. A welded bridge.
40-ft. span.

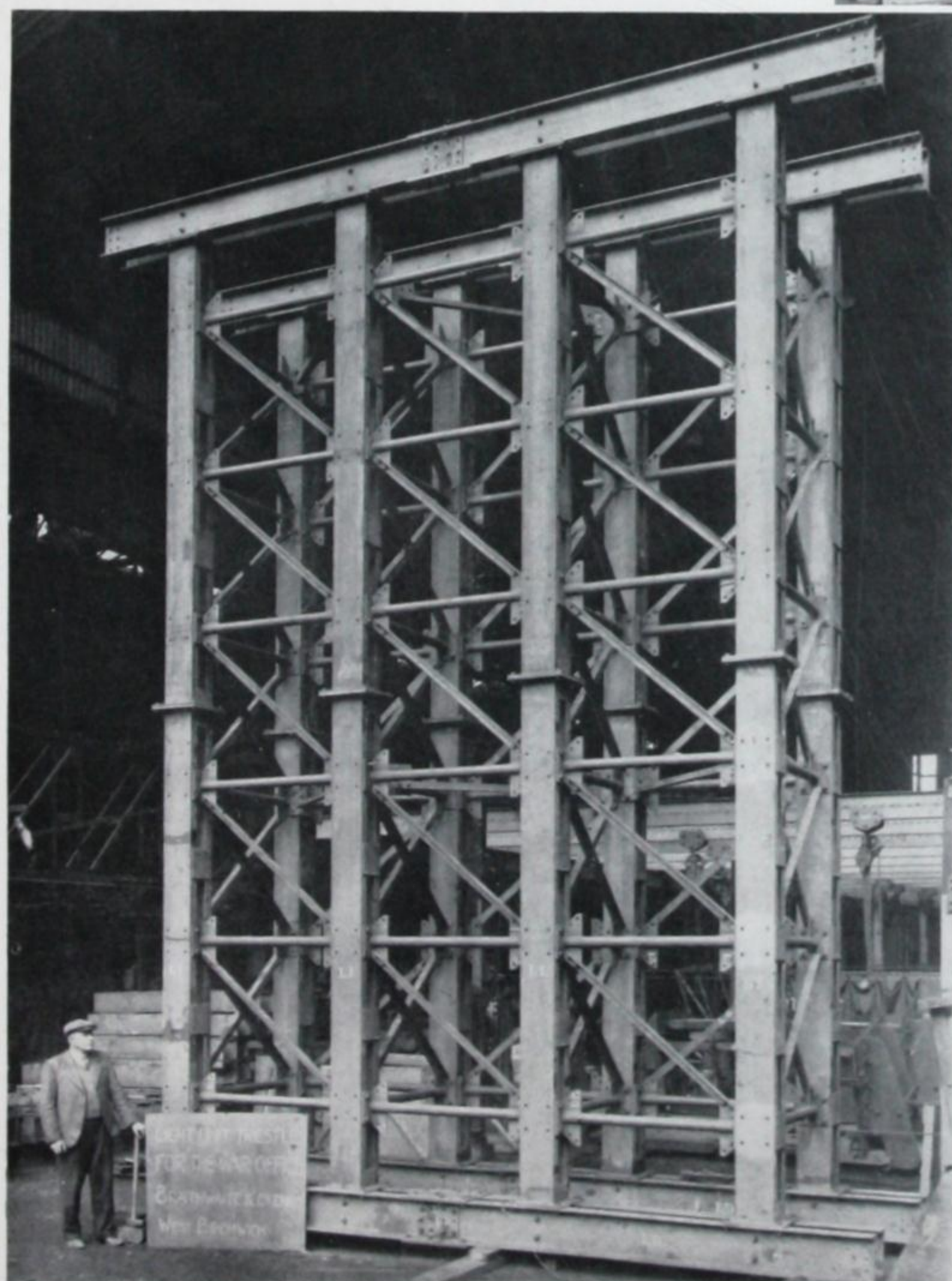
198. A riveted lattice girder bridge.
75-ft. span.



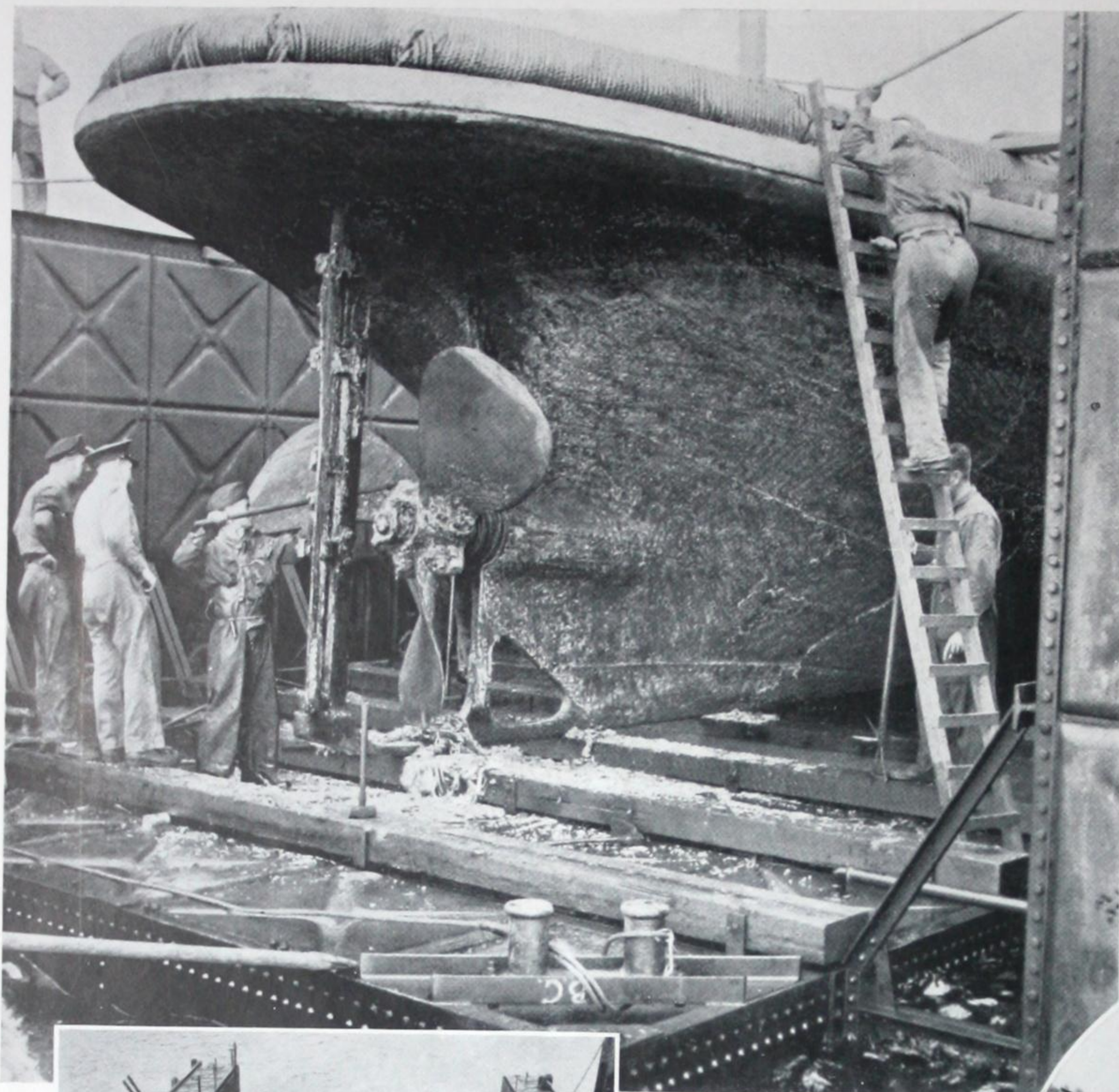
199. TRETTLES FOR EMERGENCY
REPLACEMENT BRIDGES



200. Above: Heavy Unit type trestle.

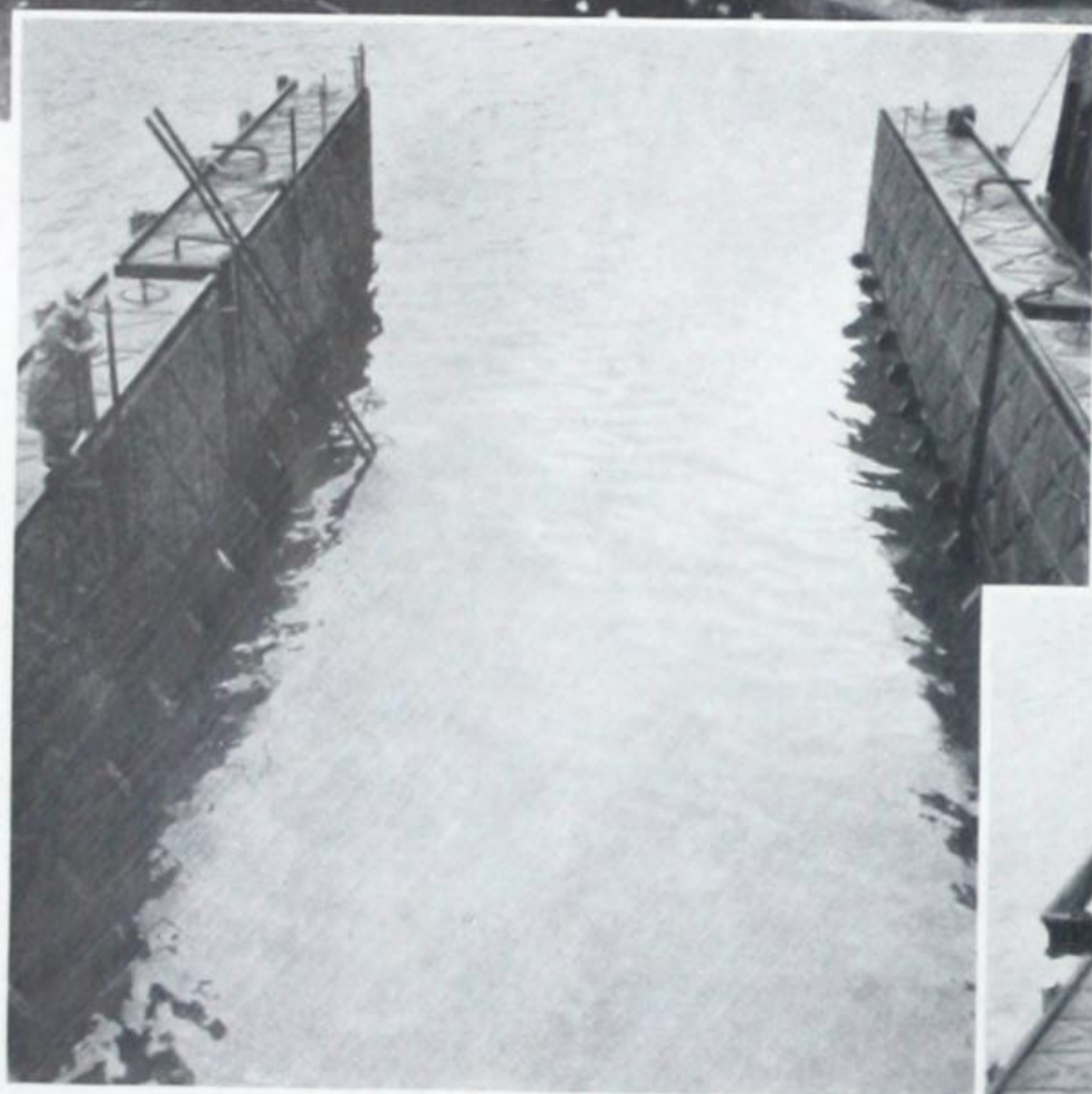


201. Light Unit type trestle.



202. FLOATING DRY DOCK CONSTRUCTED FROM PRESSED STEEL TANK PLATES, FOR REPAIRS TO SMALL CRAFT.

203. Work in progress on a tug.



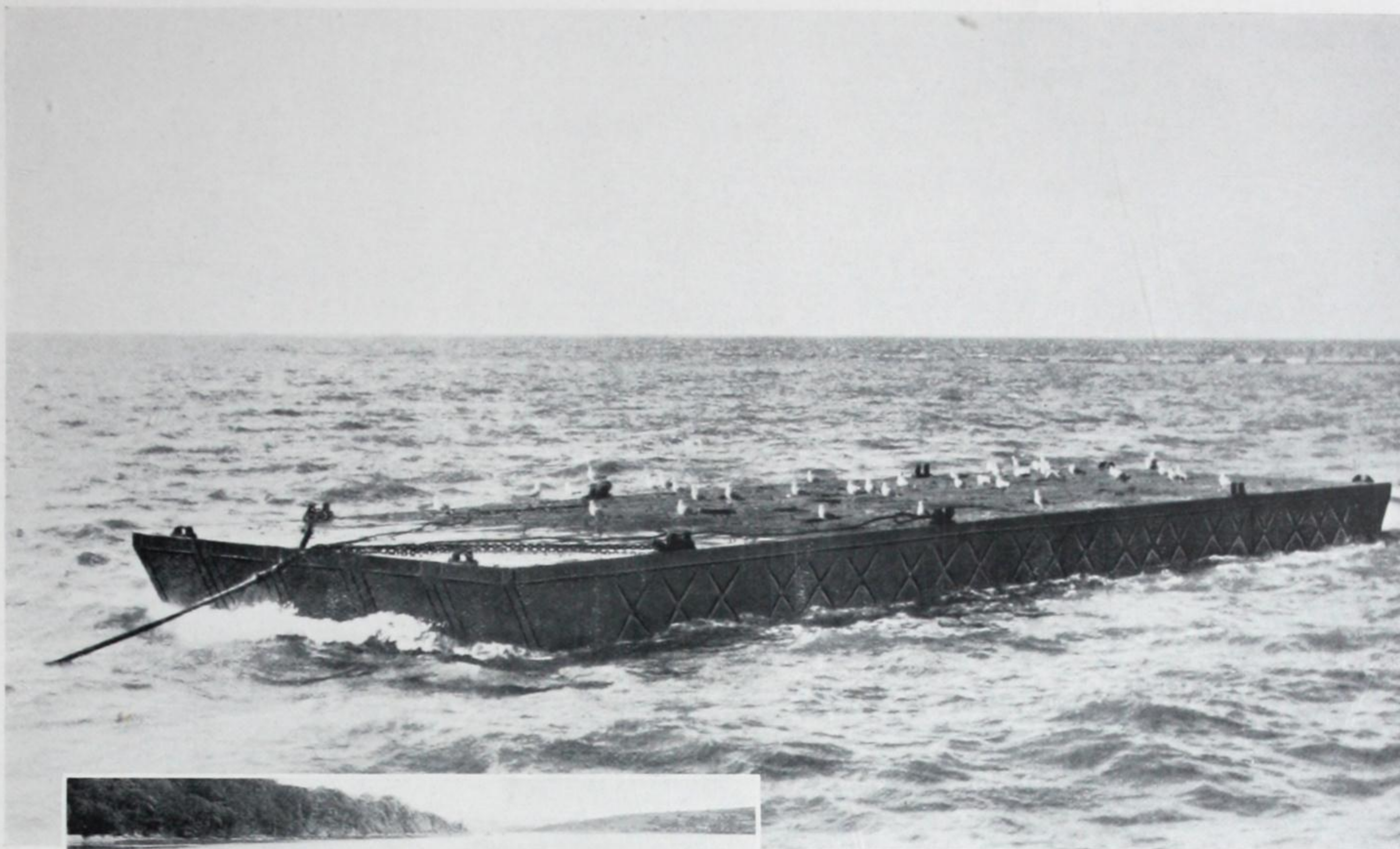
204. Dock partially submerged.



206. Tug entering dock.



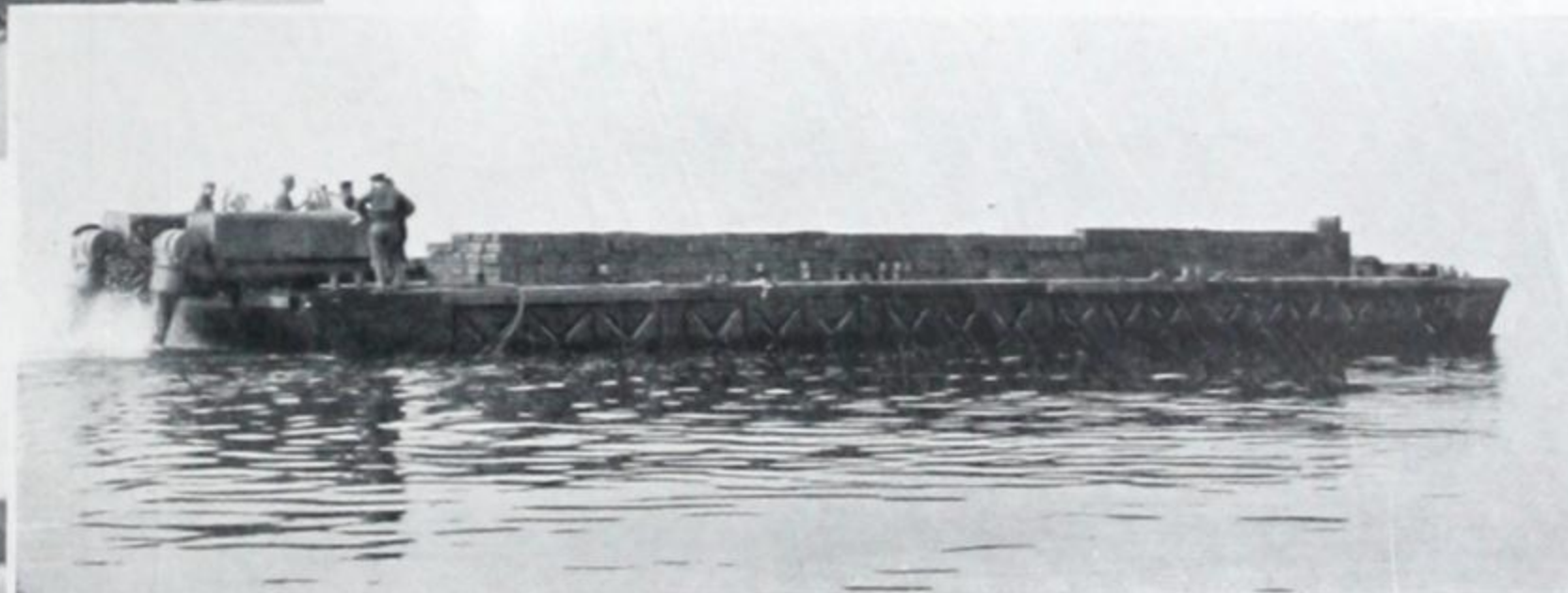
205. Tug lifted.



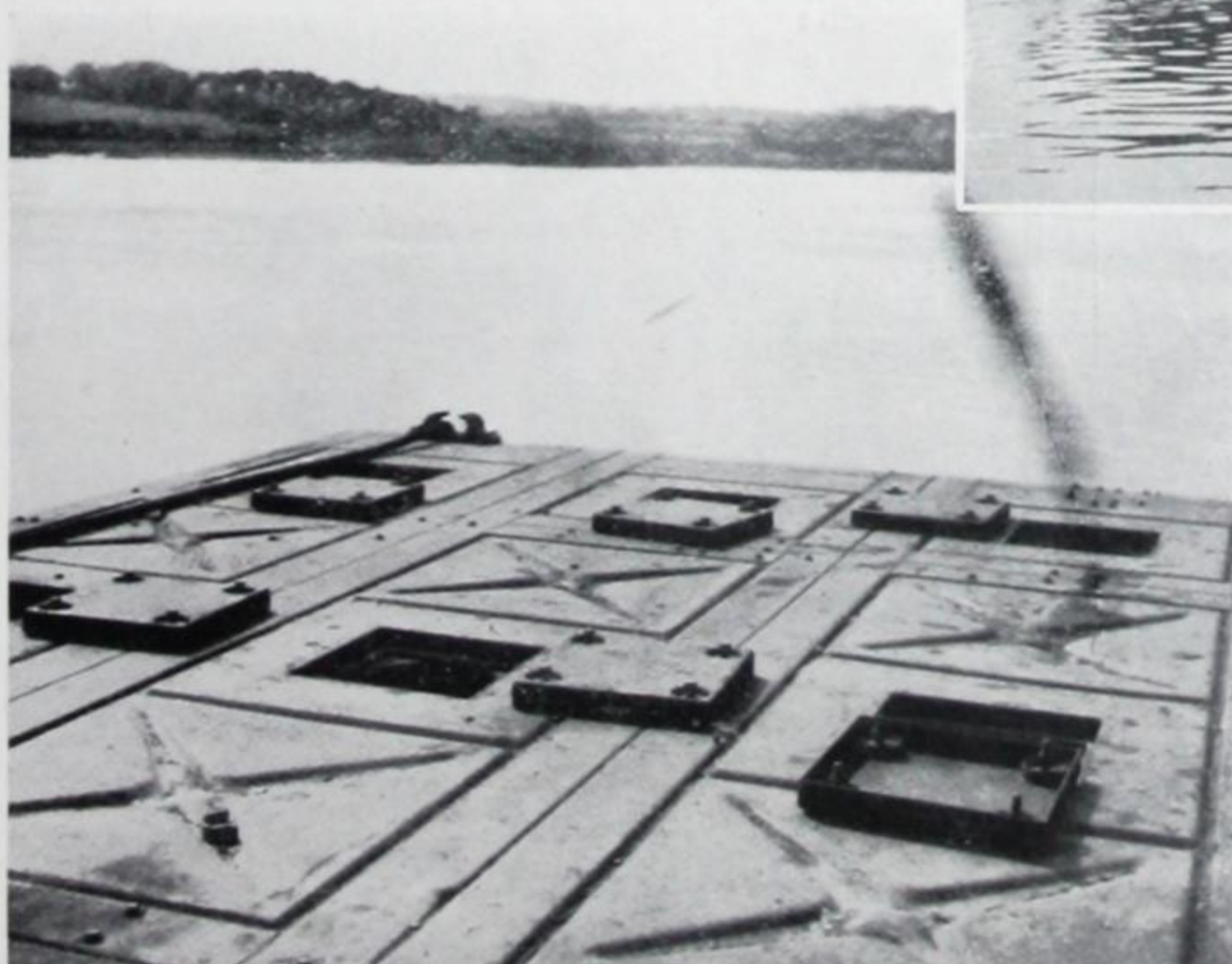
208. A pontoon on tow to a convoy concentration point.



209. A pontoon assembled near a home port.



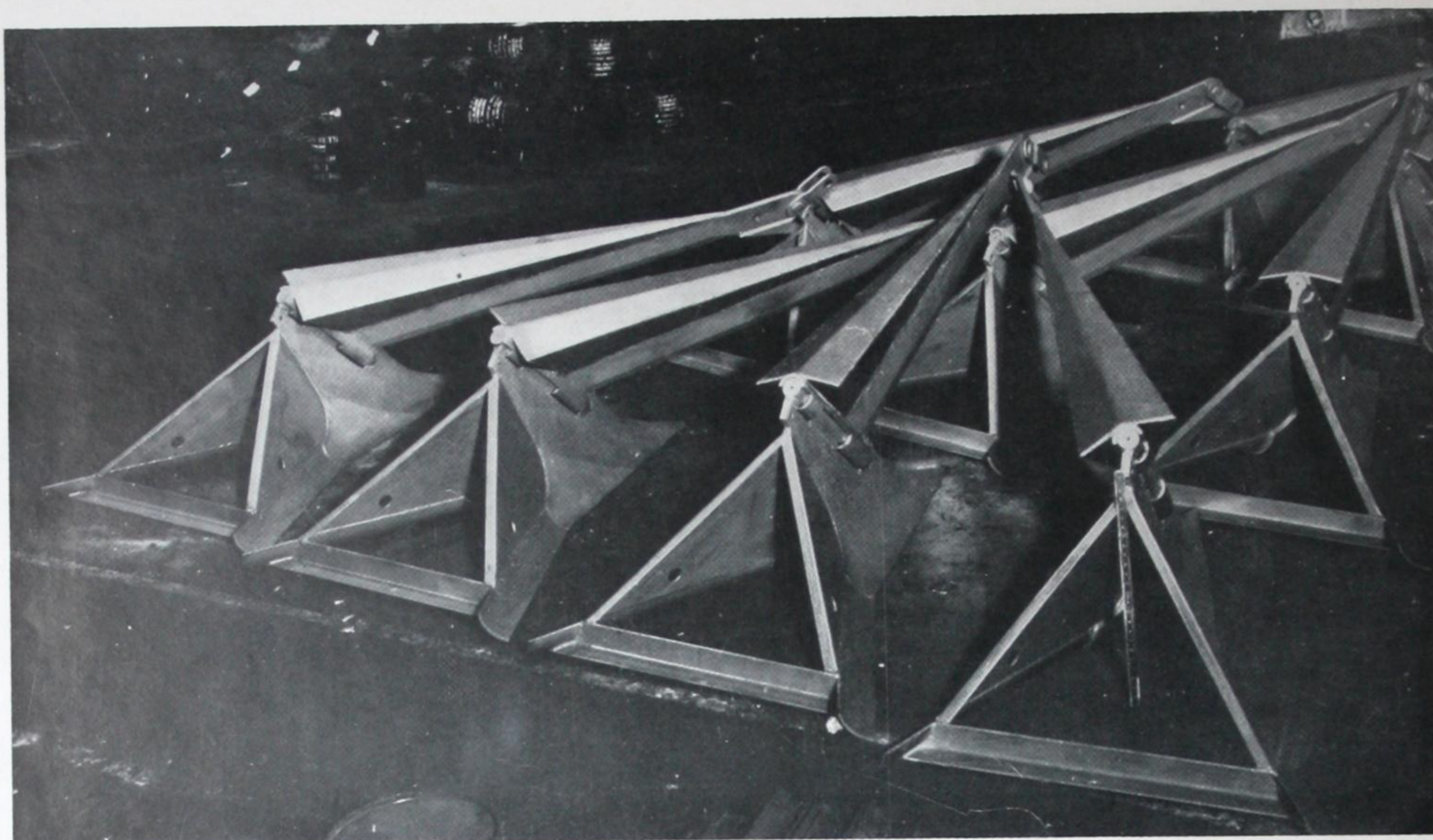
210. A smaller self-propelled pontoon.



211. Part of the deck.

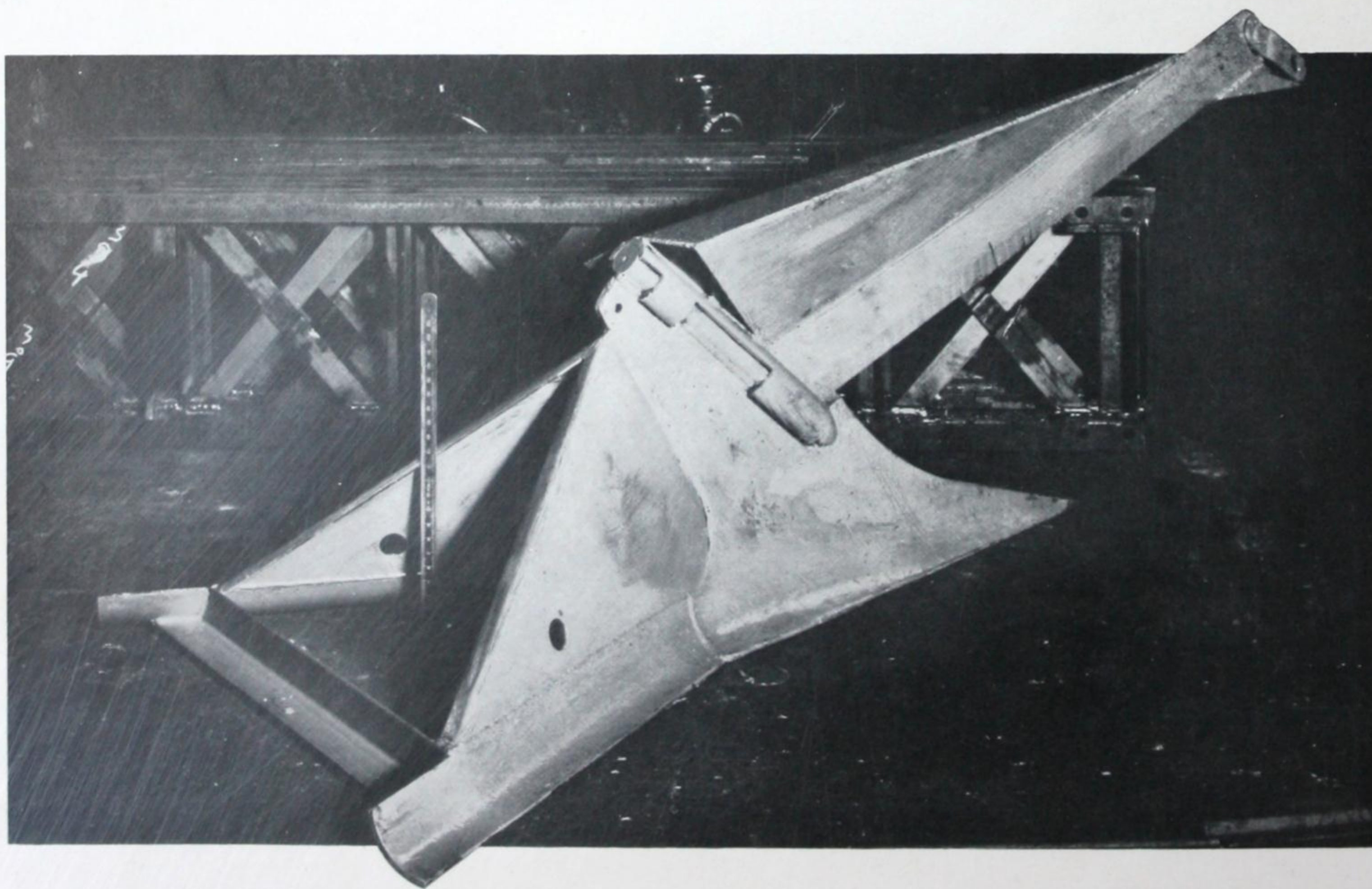
207. MILITARY PONTOONS BUILT OF PRESSED STEEL TANK PLATES.

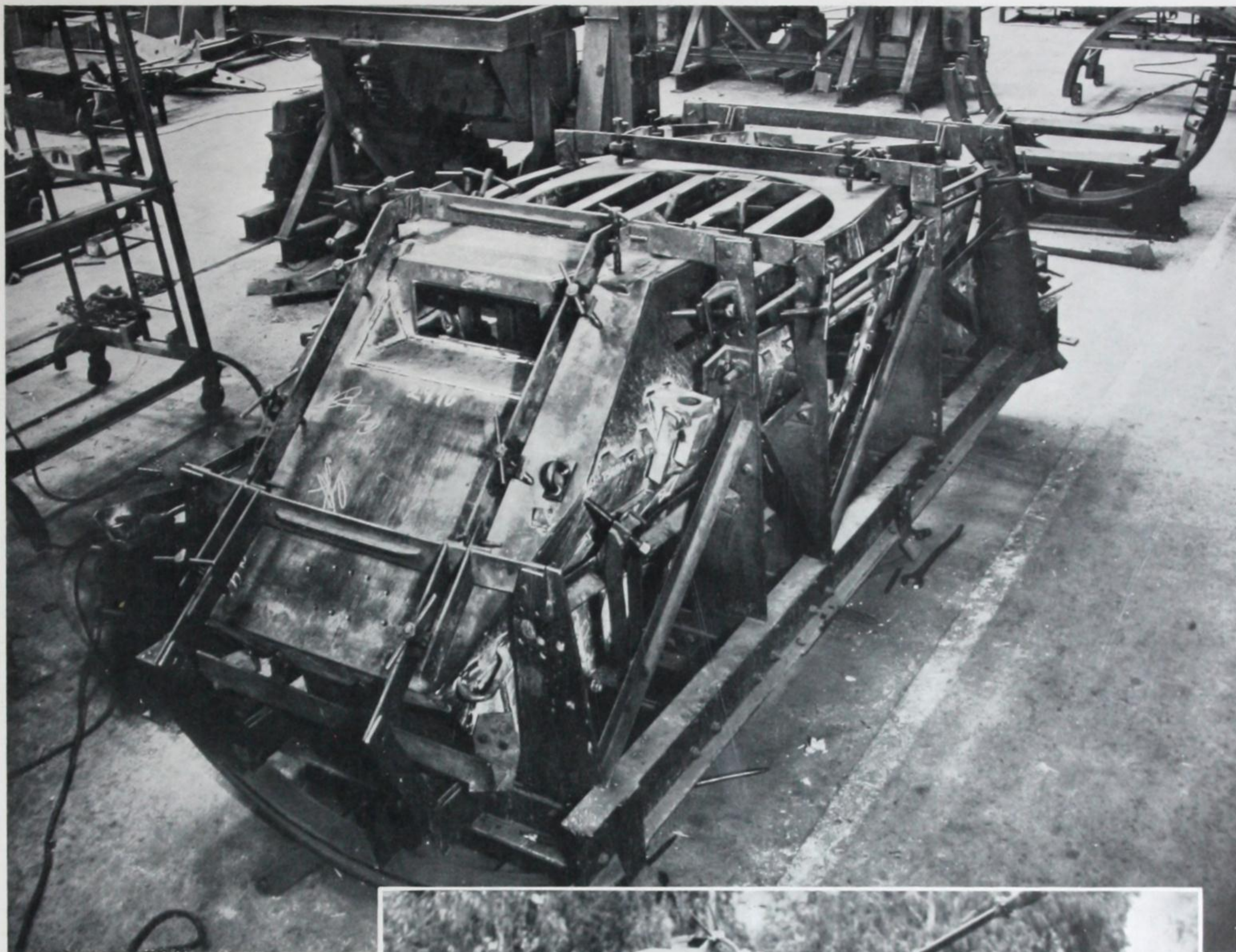
Many were used on the Normandy beaches and in Burma.



212. "KITE ANCHOR"

Designed for use with Landing Craft and for mooring the pontoons of
"Whale" pier approaches.

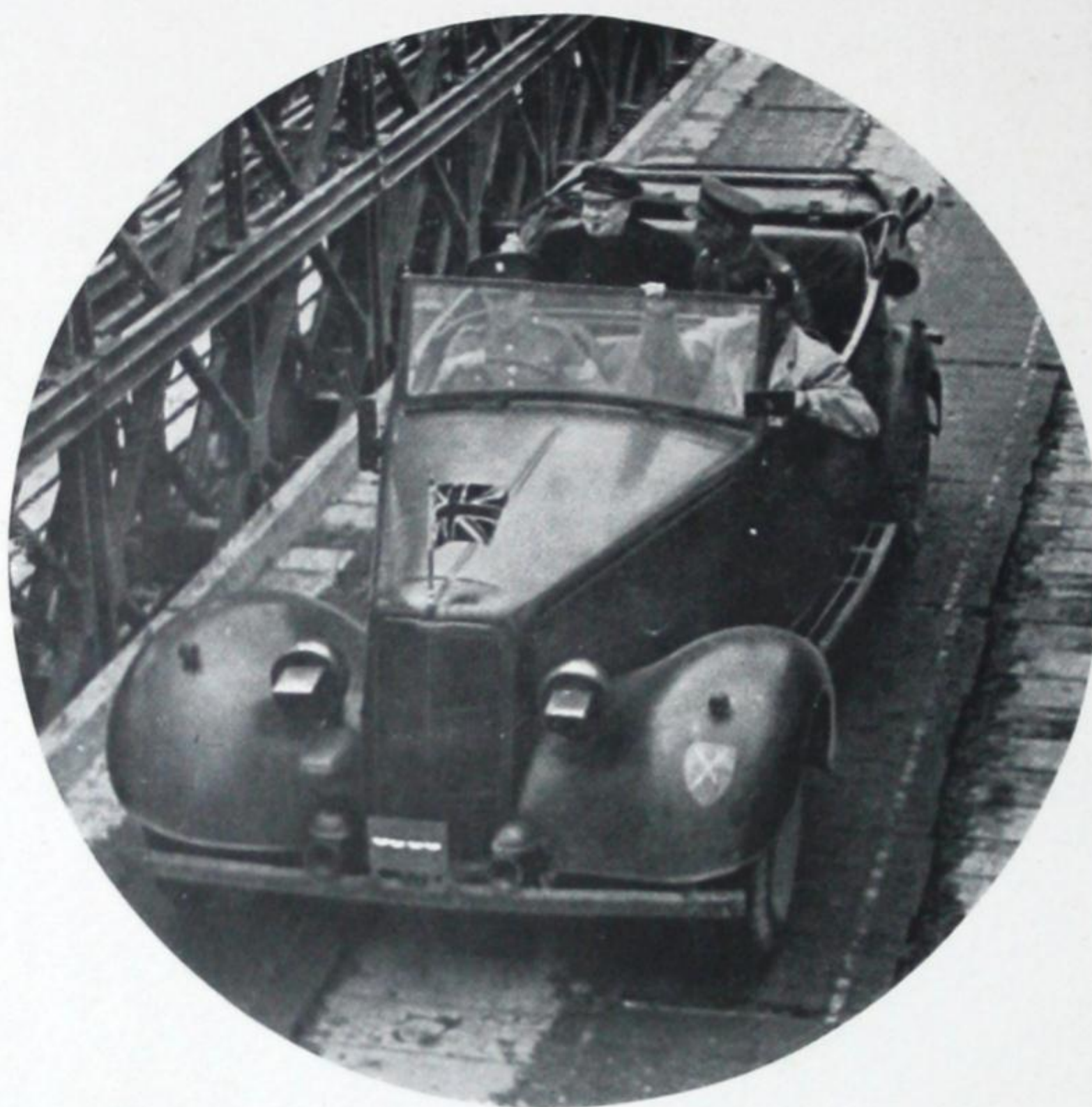




213. All welded armoured car hulls in manipulators during construction at West Bromwich.



214. THE FIRST ARMOURED CAR TO ENTER BENGHAZI



215. The Prime Minister the Rt. Hon. Winston S. Churchill, Field Marshal Lord Alexander and Field Marshal Lord Montgomery crossing a Braithwaite Bailey Bridge in Italy during the Second World War.

[BLANK PAGE]



CCA

TSITSA BRIDGE
1897
100 FT SPAN

**BRAITHWAITE
 & KIRK
 MAKERS
 WESTBROMWICH**

TOUW RIVER BRIDGE
- 1897 -
100 FT SPAN

HOMTINI RIVER BRIDGE
- 1897 -
100 FT SPAN

**BRAI
 STEEL**

G.I.P. Ry
CHOTA TOWA BRIDGE
CONTRACT No 260
65-8 SPAN
*Braithwaite & Kirk
 West Bromwich*

I.S.R
GOONA BARA Ry
40 FT SPAN
Contract 72/290
74/206
**(1897) BRAITHWAITE
 & KIRK**

CROWN AGENTS FOR THE COLONIES
 2 PS TANKS 24.12.12 DEEP WITH
 SPECIAL COVERS
 REQD W/TANG RLY 3616/1
 INDENT No RLY 208 DATED 4.10.45
 CONTRACTORS
 BRAITHWAITE & CO ENGINEERS LTD
 NEWPORT MON
 ORDER No GT8240 SEPT 1945

I.S.R
GOONA BARA Ry
40 FT SPAN
Contract 72/290
74/206
**(1897) BRAITHWAITE
 & KIRK**

**SOUTH BEHAR
 RAILWAY.**
60 FT SPAN.
Contract No 18.
(1897)
**BRAITHWAITE
 & KIRK**

CROWN AGENTS FOR THE COLONIES
 P S TANK 24.24.12 DIVISION
 ON STEEL TOWER 57-9 HIGH
 REQD W/TANG. RLY 3245/1
 INDENT No RLY.1 - DATED 5-1-44
 CONTRACTORS
 BRAITHWAITE & CO ENGINEERS LTD NEWPORT
 ORDER No T-7731 - NOV. 1934

BRAITH

STANDARD DERRICK 36'-0" HIGH
FOR THE WAR OFFICE
ENGINEER W.T. EVERALL M. INST. C.E
CONTRACTORS
BRAITHWAITE & CO. ENGINEERS LTD
WEST BROMWICH
CONTRACT No 4229 OF 1939.

**CENTRAL SOUTH AFRICAN
 Ry**
50 metre Spans
*Reqd by Braithwaite
 W. 9011/1 & Kirk
 1906 West Bromwich*

**BRAITHWAITE
 STEELWORK**

E.I.R.
**Chandmance Road
 Bridge.**
110 FT SPAN.
CONTRACT No 1009
**BRAITHWAITE
 & KIRK.**
West Bromwich.

CROWN AGENTS FOR THE COLONIES
 1 PS TANK 16.12.8 DEEP WITH
 OPEN TOP
 REQD W/CEYLON RLY 6500/1
 INDENT No 1026 DATED 2.2.46
 CONTRACTORS
 BRAITHWAITE & CO ENGINEERS LTD
 NEWPORT MON
 ORDER No GT8372 SEPT 1946

JAMAICA GOVERNMENT RAILWAY
MAY-PEN BRIDGE
CONTRACT 778/1 (JUNE 16 1923)
ENGINEERS
SIR JOHN WOLFE BARRY, LYSTER & PARTNERS
MAKERS
BRAITHWAITE & CO ENGINEERS LTD
117 VICTORIA ST LONDON SW1

FOOTBRIDGES -
AHMEDABAD
B.B.&C. RLY 1/50 & 1/70 SPAN
MADE BY
BRAITHWAITE & CO
ENGINEERS LTD
WEST BROMWICH.

CROWN AGENTS FOR THE COLONIES
 1 PS TANK 24.20.4 DEEP WITH
 CENTRAL DIVISION
 REQD W/CEYLON RLY 6601/1
 INDENT No 1091/46 DATED 1-5-46
 CONTRACTORS -
 BRAITHWAITE & CO ENGINEERS LTD
 ORDER No T8594 JULY 1947

BRAITHWAITE & CO ENGINEERS LTD
WEST BROMWICH
30-HP. CYLINDER SCREWING
CAPSTAN - No 3 -

NATAL GOVT RYS
30'0" SPANS
Indent No (Braithwaite & Kirk
R&H. 980.A) West Bromwich
1906

WAITE
ORK

EAST INDIAN RY
Touise Bridge Renewal
150-0 SPANS.
Cont No 1681 Braithwaite & Kirk
1905 West Bromwich

SANTA MARTA RY
146-0 & 40-0 SPANS
Specification No F914
Braithwaite & Kirk
West-Bromwich
1906

INDIAN STATE RAILWAYS
75-6 SPAN,
Cont No A4484 Braithwaite & Kirk,
1901. Westbromwich.

INDIAN STATE RYS
100 0 DECK SPANS
CONT No D 253
(1904)
BRAITHWAITE
& KIRK
WESTBROMWICH

I.S.R
5-6 GAUGE
60-0 CLEAR SPAN

GOO SPANS
AT WAUGOOR & MANAIR
Contract No 260
(1905) Braithwaite & Kirk
West Bromwich

STEELWORK BY
BRAITHWAITE & CO
ENGINEERS LTD.
INCORPORATED IN GREAT BRITAIN
LONDON WEST BROMWICH NEWPORT

25-0 SPANS MADE
FOR Messrs J. REID & CO
By Braithwaite & Kirk
1906 West-Bromwich

WAITE

ITE
K

UGANDA RAILWAY
CYLINDERS & BEARING
GIRDERS FOR BRIDGE PIERS
REQ No 604-1899
CONT No 1
SIR A. M. RENDEL Engineer

CROWN AGENTS FOR THE COLONIES
P.S. TANK 16' x 16' x 8' DEEP, OPEN TOP
PREPARED FOR INCREASE TO 12' DEEP
ON 30' HIGH STEEL TOWER
REQ NO W/KUR 3233/1A
INDENT NO 939 DATED 20 6 46
CONTRACTORS -
BRAITHWAITE & CO STRUCTURAL LTD
NEWPORT, MON
ORDER NO T502 JUNE 1949

CROWN AGENTS FOR THE COLONIES
REQ No W/IRAQ. 4163/1
BRIDGES IRAQ
BRAITHWAITE & CO ENG^S LTD
WEST BROMWICH
NOV 10th 1934

STEELWORK
BY
BRAITHWAITE & CO
ENGINEERS LTD
WEST BROMWICH

FOOTBRIDGES -
AHMEDABAD
Braithwaite & Co
ENGINEERS LTD
WEST BROMWICH.

NATAL GOVERNMENT RYS
400 SPAN
Indent No L&W 208
BRAITHWAITE & KIRK
MAKERS
WEST BROMWICH

CROWN AGENTS FOR THE COLONIES
P.S. TANK 40' x 36' x 12' DEEP
WITH WEATHERPROOF COVER
ON STEEL TOWER 20' HIGH
REQ NO W/EC3 UGANDA PWD 2786/1
INDENT NO 64/1949 DATED 13 1 49
CONTRACTORS -
BRAITHWAITE & CO STRUCTURAL LTD
NEWPORT, MON
ORDER NO T805 DATE MAY 1950

STEELWORK
BY
BRAITHWAITE
& CO ENGINEERS LTD
WEST BROMWICH

CAPE GOVERNMENT RY P.W.D.
LADY LOCH BRIDGE WELLINGTON
6-100-0 THRO SPANS
Reg No 4789 Braithwaite & Kirk,
1910 West-Bromwich

INDIAN STATE RAILWAY
GREAT BRIDGE PENERANDA
NEERULDA BRIDGE
CONTRACT No. 1408
STANDARD R R BRIDGE GAINS LEADING
DESIGNED & MADE
BY
BRAITHWAITE & CO ENGINEERS LTD.
NEWPORT & WORKS

THE MANILA RY CO LTD
PENERANDA BRIDGE
50 metre SPANS
906 Braithwaite & Kirk
West-Bromwich

